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IMPORTANT DEFECTS IN INDO-EUROPEAN PHONOLOGY

EDWIN W. FAY





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IMPORTANT DEFECTS IN INDO-EUROPEAN PHONOLOGY

By EDWIN W. FAY



The benefits of education and of useful knowledge, generally diffused through a community, are essential to the preservation of a free government,

Sam Houston

Cultivated mind is the guardian genius of democracy. . . It is the only dictator that freemen acknowledge and the only security that freemen desire.

Mirabeau B. Lamar

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IMPORTANT DEFECTS IN INDO-EUROPEAN PHONOLOGY*

- 1. In empiric Indo-European grammar universal generalizations have been based on inadequate knowledge and controlled by a limited, not to say myopic, vision. The preconceived idea, the lurch toward phonetic or morphological optation, has nullified or even stultified the examination of evidence. It has seemed an end desirable in itself and making for precision to maintain flimsy differentiations and phonetic deductions have been made from equations between words sometimes certainly cognate but identical only ex hypothesi. In the reconstruction of the state of things prior to documentation linguistic science has moved, and in the nature of things must move, in the vicious circle (§ 51). Taken by itself, any individual equation is true only in so far as it seems to be true. Let several equations yield corresponding results, however, and their coherence may justly produce a conviction of probability sufficient rigidly to be accounted for proof. Of such convictions is the texture of linguistic science wrought. Yet the very affectation of rigorous procedure—of method—tends to produce the blindness of the preconceived idea and so defeats our actual counsel of perfection.
- 2. OLat. quom, with.—By way of illustration let us look at the conflicting testimony of the cognates of OLat. quom (com-/cum). From quom and Welsh pwy we must infer a primate with initial kw or k^w . The only evidence excluding kw is the evidence of Volscian co-vehriu: Lat. curia (Italic primates $co-virio-/\bar{a}$). Without really examining this evidence, Brugmann (Gr. 2, 2.852) has rejected the testimony of quom and pwy, at the cost of having to explain away the qu of quom

*In this paper lack of types is responsible for a few irregularities in transcription. The consonants m n r (sometimes raised) do duty also as vowels (accents omitted). For underdotted d n h Roman instead of Italic characters are used. For an anceps vowel the curled circumflex (not very marked) has been used, but not rigorously. Unusual characters have sometimes been recruited from different fonts.

Owing to these typographical difficulties the actual issuance of the paper has been more than two years delayed.

and of separating Ir. co- from Welsh pwy.¹ This constitutes a glaring instance of the stupefaction produced by the preconceived idea for, if we focus our attention, not on the general Volscian treatment of k^w , but on the primate k^wo - $v\bar{\imath}rio$ -, dissimilation of k^wow - to kow- seems perfectly admissible. The IE. primate for OLat. quo(m) was $(s)kwo(m)^2$ rather than $(s)k^wo(m)$; or rather it was (s)kw-om, extended from sku-/ksu-, 'with' (: Lat secu-tus, see TAPA. l. c.; infra § 34) by the addition of -om, picked up from IE. som, 'with'; unless it was an accusative ending of a stem *sku-. On Lat. sequor: $\epsilon\pi o\mu a$ (not $\epsilon\pi \pi o\mu a$) see JAOS. 34. 333, 1; cf. § 3.

3. The $\pi\pi$ of $i\pi\pi$ os and $\tau a\pi\pi\acute{a}\mu a\tau a$.—The equation of $i\pi\pi$ os with Skt. $\acute{a}çva$ -s falls short of rigor in the quality and breathing of the initial vowel,³ but $-\pi\pi$ - has always been supposed rigorously

The κατά group does not belong with kwom/kwom, but κατ- (frequent in composition) and κατά mean 'lying [down],- along' (-in, -upon, adjacent to) and obviously belong with $k^i\bar{e}i$, 'iacere' ($\bar{e}i$ proved by Skt. su-çī-ma-: ὀρε-σκῷος; Bartholomae correctly writes the Avestan root as $s\bar{a}y$). With $\kappa a\tau'$ ($\langle k^1 z - t \rangle$ of. Lat. super-ste-t: $\kappa a\tau \dot{a}$ is a nom.-voc. masculine in IE. ta, cf. $\dot{\eta}\pi\dot{\nu}$ - τa , OLat. Aperta (Apollo-epithet). Umbr. Prestota. This ta (\tilde{a} as in the $i\pi\pi\sigma\sigma\sigma\sigma$ and agricola type, see CQ. 8.50; TAPA. 44. 119) is related to, or has been converted into, the fem. to in Lat. in-stita, anti-stita (: ἀντι-στάτης). The IE. preposition k¹-t (k^1 -ta), 'down' is perhaps also to be admitted in Lat. ca(t)- $t\bar{e}na$, 'chain' (: κατα-τείνει, see definitions in Liddell & Scott), cf. Skr. vi-tāna-s, a special sort of 'binding' for the head (cf. \(\tau ten, \ \\$ 31). The prius k^{1} -ti), (stem, or a locative)='bed' in $(\alpha \dot{\nu} \tau o -) \kappa \alpha \sigma - i - \gamma \nu \eta \tau \sigma s$, 'in (eodem) lecto gnatus'; but it might mean 'litter' (?: Lat. catulus, 'one of a litter,' i. e. brood laid in straw), cf. the discomposite (?) κάσις, 'brother,' originally 'one of the litter.' There is a Celtic primate *k(w) m-ta, 'cum,' from IE. kwom extended, with pretonic reduction to *km-ta, on the analogy of *(s)m-etά: μετά (TAPA. l. c.). For the phonetics of IE. kw-/k- see also Persson, Beitr. p. 123-128. In the Gallic proper name Cintu-gnatos, 'γνήσιος, legitime natus,' if=bed-born, the prius cintu will belong to the root $k^i\tilde{e}i$ (:: Lat. ventus : $\forall w\tilde{e}$). 20n the literature for the treatment of IE. skw-/ksw- see CQ. 11, 213 fn.

³I am inclined to explain $l'\pi\pi\sigma\sigma$ as a Greek epithet that has ousted original $*i\pi(\pi)\sigma\sigma$. The primate may have been IE. $s[w]-ik^iw\sigma\sigma$, 'geschwind,' with posterious cognate to Skt. $ig\bar{u}'$, 'might.' The development of the sense 'geschwind' may have occurred as in geschwind, cf. MHG. swint, 'gewaltig,' whence 'stark, schnell.' Unaspirated $*i\pi\pi\sigma\sigma$

to match cv-, and to show that in Greek alone of the labializing tongues $-k^1w$ - had a different treatment from $-k^w$ -. This conclusion is not certain for, as Skt. áçva- is represented in Celtic both by epo- and hypocoristic eppo-, so the double consonant of $i\pi\pi\sigma\sigma$ and 'Ίππος may be hypocoristic (cf. on Lat. vacca : Skt. vaçā, 'cow,' in JAOS. l. c.). As further documentation in the effort to prove $-\pi\pi$ - $<-k^1w$ - Boeotian $\tau a \pi \pi a \mu a \tau a$ (crasis for τa $a \pi \pi a \mu a \tau a$ cf. Corinna's ἀππασάμενος=ἀνα-κτησάμενος) and ἔππασις (=ἔγ-κτησις) have been explained by κυρος: Skt. cvā-trá-s, defined without sound warrant by 'gedeihlich'. But in ἀππασάμενος, ταππάματα, $\xi \pi \pi a \sigma s$ the explanation of $\pi \pi$ from $\mu \pi$ accords with like sporadic assimilations in various dialects (see Buck, Greek Dial, § 69.3) and the phenomenon of $-\pi\pi$ - $<\mu\pi$ - is not more isolated—and so unverifiable—than the assumption of $-\pi\pi$ - from $-\mu\pi\pi$ -. The proper names Θιόππαστος, Γυνόππαστος, may have hypocoristic ππ, cf. 'Αγαθθώ, Βίοττος, Μέννει (Buck, l. c. § 89.5), while the derivation of -όππαστος from ὀπάζω is at least as probable as from πάομαι.⁵

is not proved by names like "Αλκιππος, Λεύκιππος, which, if not from a psilotic dialect, will have been influenced by the hypocoristics "Αλκων "Αλκετος, "Αλκος, "Αλκις (cf. 'Αλκή, E, 740), and Λεῦκος (Homer, cf Lat. Lucius), Λεύκων. For the semantic ('horse': 'swift' or 'strong') cf. Skr. $v\bar{a}jin$ -, celer fortis; equus. To [k]s(w)ik wen- we may also refer $i\kappa av \acute{o}s$, potis capax: Skt. $\bar{\imath}cv ar \acute{a}$ - GAv. isvan, potis; cf. perhaps Av. isu if—hard (epithet of winter). But there is still another possibility, viz. that IE ek wos, the swift (>horse), gave way dialectally to IE (k)s(w)-ippos (pp hypocoristic), cognate with Eng. swift (also—'swallow') and Skt. $k \acute{s}ipr \acute{a}$ -. Generally speaking (pace Oertel, Lectures p. 306), it makes no difference whether 'horse' preceded 'swift' or conversely, for sometime in its history the primate ek wos meant both 'horse' and 'swift'. Let me quote here for its semantic value Epictetus 1.2.10: "Why, are all horses swift? Are all dogs sagacious?"

'Presumably because of the native lexicographer who defines by dhana-s, interpreted in the occident by 'wealth'; but in a lexical group of synonyms dhana-s is quite as likely to have the sense of snehopātram (='deliciae'); cf. çvātra'- in its usual sense of 'tidbit.' The root of πέπαμαι πολυ-πήμων was either (1) $p\bar{a}/p\bar{o}$ (cf. Lat. potior); or (2) $p\bar{a}$ is a variant of the root pen in πένεσθαι, 'laborare laborando parare,' and ultimately akin to $pen/p\bar{a}$ in Lith. $pen-\bar{e}ti$ (Lalis): Lat. pascit. Note a comparable restriction of meaning in Fr. lavourer, 'to till, plow' <Lat. laborare. For a brief list of Sanskrit

4. The Schwa Indogermanicum. 5a—If we insist on a rigorously methodical procedure the doctrine that i in Skr. pitár-, 'father' (: Av. pitar-, ptar-, patar-) is identical with the a of pater must be challenged. If we give due consideration to Skt. go-ptár-'[cow-] protector' (see on evanescent go- IF. 26, 32), we can not legitimately exclude the oldtime derivation of pitár- from $\sqrt{p\bar{a}}$, 'to protect' (IE. $p\bar{o}(i)$, but $p\bar{a}$ in Lat. $p\bar{a}scor$). In pitár i may be the legitimate reduction-form of the i-diphthong, while in pater a will be the reduction form to \bar{o} in $p\bar{o}$. Challenge to the extreme of skepticism the actual derivation of pitár- from \sqrt{poi} , and lay all emphasis on the baby-word papa: still we must admit, in the light of Indo-Iranian (=Skt.) bhártar-/ bhartár-, 'husband, protector,' bhartrī, 'wife,' that pitár, 'father, protector,' if not actually cognate with pā'tar-, 'protector,' at the very least owed its agent suffix, albeit pre-Indo-Iranian, to some categorical association with the nouns in -tar. In go-p[i]tár-,

root doublets in $-an/\bar{a}$ see JAOS. 34. 341. We have the root $p\bar{a}$ as a verbal noun in the Latin proper name Agrip(p)a (pp is hypocoristic). Thus Agri-ppa (=agri-cola) is a compound of IE. type, but not the curious thing surmised by Schulze in KZ. 32. 172 fn. but recalled in his Latein. Eigennamen. The origin of the glossal definition 'qui in pedes nascitur'—from earlier aegre partus: Agri-ppa (!)—is clearly revealed in A. Gellius 16.16.

5aThe point I am about to make is that IE. roots in $\bar{a}x(i)$ had reduction grades represented in the historic tongues by genuine i on the one hand and on the other by a. Thus we have in Greek from the root $sp(h)\bar{e}(i)$ the derivatives $\sigma\pi\iota\delta\dot{\eta}s$ and $\sigma\pi\dot{a}\delta\iota\sigma\nu$ (: Lat. spatium); while in Latin, situs is a participle from the root $s\bar{e}(i)$, to leave, but satus from the homonymous root $s\bar{e}(i)$, to sow.

On the alleged a in khid: khād, etc., see § 42 D.

The case for the development of Skr. pita' from the babyword pappa would be much stronger if mita': babyword mamma were also found for 'mother.' I have derived the formal IE. noun mater-from *[t]mater-, 'cutter' (see for the semantic KZ. 45. 134; JAOS. 32. 392), and this derivation seems to me to find some confirmation in the Hesychius gloss $bho-\mu \eta \tau pa$, 'wood-grub,' original sense $bho-\tau b\mu os$. As to the Agni epithet mataricvan-, I find it hard to decide between my later explanation as [t]Materiae-puer and the earlier (from mataricvan-) 'having-water-as-his-mother' (see also Gray, Vasavadatta, p. 64, n. 1). We really come back to materiae-puer if we define by in-matretumens, taking the prius as a locative (mataric-, oxytone like gen. pl.

Indo-Iranian pitar-,8 'protector,' is assured. In the overwhelming schematization of Sanskrit only one type of agent noun is preserved, the type of δώ- $\tau \omega \rho$, $St\bar{a}$ -tor; but Indo-European also had the reduced type of δo - $\tau' \eta \rho$: Lat. $d\check{a}$ -tor, $\sigma \tau a \tau' \eta \rho$: Lat. in-stitor;

 $m\tilde{a}trn\tilde{a}m$, cf. $\mu\eta\tau\epsilon\rho\iota$ $\mu\eta\tau\rho\iota$). See RV. 8. 91. 17, where Agni's 'Mothers' ($m\tilde{a}t\acute{a}ras$) are the drillsticks (see Lanman's $Sanskrit\ Reader$, p. 215, s. v. $m\tilde{a}tr$). For the Greek riddles of the mother ($\mu\dot{\eta}\tau\eta\rho$) of the fire see Oehlert, Raetsel u. Raetselspiele p. 92 sq., interpreting Hesiod Theog. 177-181 (Rzach).

*Formally considered, θυγάτηρ and Skr. duhitár- are in conflict (1) with Av. $dug = dar - / du \gamma \delta ar$ (<IE. $dhug dh \acute{e}r$ -) and (2) with Goth. daúhtar (IE. dhuktér-). Of these forms the first is normal, the second reveals the resistance—the at least half-conscious resistance of the suffix ter against the normal phonetic treatment of gh+t(>gdh). For the principle see Verner in KZ. 23. 128, cited in AJP. 33, 383. The trisyllabic forms θυγάτηρ: duhitár- also reveal the predominance of the suffix ter, and I see no objection to regarding their penultimate vowel as analogical or as an IE anaptyptic vowel-the anaptyxis being due to a conscious resistance against the phonetic change of ght to gdh. Expressed in a proportion: IE. -pter (in Skr. go-ptár-): ΙΕ. pətér- | pitér- (πατήρ | Skr. pitár): : ΙΕ. dhugdher-| $dhukt\acute{e}r$: IE. $dhug[h] \ni t\acute{e}r$ | dhughiter (in $\theta v \gamma \acute{a} \tau \eta \rho$ | Skr. $duhit\acute{a}r$). The prevailing tendency—as in the Avestan and Slavic lexica of Bartholomae and Berneker-to belittle the definition of IE. dhugdher as 'milkmaid' or 'suckling' is mere blague. If Lat. filia may be ascribed to $1/dh\bar{e}i$, to suck (le), by the same token we may derive Skr. duhitárfrom \sqrt{duh} . Nor can we get away from the formal identity of the suffix of relationship (ter) with the identical agential suffix. The impulse away from the infantile reflexes pappá (mammá) to the formal $pat\bar{e}r$ $(m\tilde{a}t\bar{e}r)$ is sensibly accounted for by the accidental convergence of pappá on p[a]tér (in Skr. go-ptár), and the only reason for refusing this sensible account is a predilection and determination to belittle all non-material elements (i. e. all elements not merely phonic) in the prehistory of language. No sentimentalism, the cynics cry. The father was not the protector; the daughter was not the suckling (sucker or suckler); perish the milkmaid! Be it further noted that θυγάτηρ duhitár- may owe their penultimate vowel to an analogy with a lost IE. $dha-t\acute{e}r$ - | $dhi-t\acute{e}r$ - from $\sqrt{dh\tilde{e}i}$, to suck (le). Before specific association with the baby-word pappá pəter will also have become a mere title like sire sir. It is even more probable that IE. pater meant originally 'protector', cf. Fustel de Coulanges, La Cité Antique, iv. ch. 1: car ce mot <pater> qui désignait la puissance et non pas la paternité, n'a pu s'appliquer alors qu'au chef de la famille.

and many scholars (e. g. Walde, Lex. p. 742) explain Skr. - $\dot{s}thar$ - (Av. - $\dot{s}tar$ -) in savya- $\dot{s}thar$ - (with $\dot{s}th$ from *savye- $\dot{s}thar$ cf. Av. $ra\theta a\bar{e}$ - $\dot{s}tar$ -) as from - $sth[\partial t]\dot{a}r$ -.

5. In brief, my conviction regarding Indo-Iranian i as a reduction form of \bar{a} is that it is a genuine i and started in reduction forms of $\bar{a}i$ roots, with doublets in $-\bar{a}$. Thus $sthi-t\acute{a}$ has the i of diphthongal \sqrt{sthai} , but $\sigma\tau\alpha$ - τ o's has a reduction \breve{a} (schwa, if one will) from $\sqrt{sth\bar{a}}$. In Indo-Iranian the $i:\bar{a}i$ alternation was generalized for the $-\bar{a}$ roots. Indeed, the basis for analogical interchange between \bar{a} and $\bar{a}i$ roots in Indo-Iranian is well-nigh unlimited. Granting that $\sqrt{d\bar{a}}$, 'dare' (but impv. $d\bar{\imath}$ - $\dot{s}va$), is a different root from $d\bar{a}$, 'dividere, to share' (=IE. $d\bar{a}i$, whence certainly Lat. $d\bar{a}s$ and impv. [-infin.] $d\bar{a}[i]$, like Skt. parā-dā'i, 'dēdere'), their liability to thorough interfusion in Indo-Iranian is to be taken for granted; cf. e. g. their like participles -dita- (also diná-, 'divisus') and -tta; and surely the i of dita- and diná- is Indo-European; cf. Av. sinā-, 'scissura,' ptc. to $\sqrt{sk^{1}h\bar{e}i}$. Let us further marshal the like \bar{a} - forms of the roots $s\bar{a}$ (IE. $s\bar{a}i$, 'to bind') and $d\bar{a}/dh\bar{a}$. pf. $sas\bar{a}\hat{u}:dad(h)\bar{a}\hat{u}$; aor. asāt: ad(h)āt; impv. sā-hi: dhā-tu; infin. -sāi: -dāi, sā-tum: $d(h)\bar{a}tum$; verbal $-s\bar{a}ya:d(h)\bar{a}-ya$. These correspondences in the \bar{a} -forms surely justify us in interpreting the *i*-forms as analogical, e. g. aor. sī-mahi: dhī-mahi (cf. adimahi); sitam: ad(h)ita-; infin. situm: dhitum. Without any phonetic mystification, then, passives like Skt. siyate (:dhiyate, diyate) will contain IE. $\bar{\imath}$: $\bar{\alpha}^{x}i$. In KZ. 36. 76-86 Pedersen sought a rule,

°If we bear in mind the double treatment of IE. $\ni i$ (αi and \hat{i} in Greek), Skt. diyate, 'dividitur,' may be directly equated with Hom. $\delta al[y] \epsilon \tau a\iota$. In the Avesta, the (medio-) passive type of $ni \cdot \delta ayeinte$, 'deponuntur,' may well correspond, not with the type of Skt. $dh\bar{i}y\acute{a}te$, but to the type of Skt. (middle) $d\acute{a}yate$, 'shares'; while Av. (middle) $sny \mathring{a}nte$ will conform to the type of $dh\bar{i}y\acute{a}te$ (see Bartholomae, Gr. Ir. Philol. § 147, 134.)

"Excluding $-y\bar{a}$ roots, Whitney's list has 25 roots in $-\bar{a}$ that lack verb form or derivatives with \bar{i} , $\bar{i}y$ (passives) or e (i. e. ai), ey not counted; and 24 with such forms. Of the 24, far the most are clearly related to roots showing $\bar{a} \times i$ in other tongues, and so are many of the other group of 25. Entire uniformity was not secured, witness Skt. $ch\bar{a}ta-fchita$, 'caesus: $\sqrt{sk^{i}h\bar{e}i}$ (see e. g. Walde, s. v. scio).

contingent on conditions of accent and syllabification, for Indo-Iranian i out of the reduction $\check{a}(\vartheta)$, but the contingencies do not breed conviction, and it seems unreasonable to go on identifying the i of Skt. -dita-, dina-, 'cut,' with the a of $\delta\acute{a}\iota$ vos, instead of with the ι of $\delta a\iota\tau\rho\acute{o}s$, 'carver'; cf. Lat. $sino: \sqrt{s\bar{e}i}$. IE. ϑy out of prevocalic ϑi yielded Indo-Iranian -ay- because, as in European, ϑ was phonetically an a-sound.

6. No IE, instrument suffix -θ-tro-.—Very sorry morphological superstitions have been engendered by writing equations between words closely cognate but not identical. Thus from ἄροτρον (Gortyn. ἄρατρον), OIr. arathar, 'plow': Skr. arí-tra-m, 'tiller,' an instrument suffix -9tro- has been deduced. But the derivation of the penultimate o(a), a, i, from θ is a pure gratuity, since o and a may both represent IE. o, and -i-tra- is common enough in Sanskrit to have been spread by irradiation. Quite as common and very certain in Sanskrit are instrument nouns and names of the bodily parts in -atra-, 11 e. g. ám-a-tra-, 'pail,' k^rntátra- (passive sense), 'shred,' gāyatrá-, 'song,' pátatra-, 'wing,' yájatra-, 'adorandus,' vádhatra-, 'lethal weapon,' samskrtatrá-, 'chopping bench'; cf. fem. varatrã, 'strap.' What with the glib ease of explaining i in Skt. jan-i-tár- and ϵ in γενέτωρ, γενετήρ from IE. θ—so Wackernagel in his Ai. Gram. i, § 16—one tumbles into the pitfall of Lat. gen-e-trix (-eproved by Osc. Gen-e-tai, dative; cf. also meretrix, accipetrina): Skr. $jan-i-tr\bar{\imath}$. The $-\epsilon$ - of $\tau\epsilon\rho$ - ϵ - $\tau\rho$ o ν is supported by the $-\epsilon$ of Lat. terebra, while the -a- of OIr. tar-a-thar, 'borer,' if not a gradation o/e, may be due to its assimilation with arathar, 'plow'; cf. for the idea φαράει φαρόει, 'plows' (a/o as in Lat. arat, Gortyn. ἄρατρον: ἀρόει ἄροτρον): Eng. bores, Lat. forat. 'pierces.' Lat. verětrum, 'mentula'—*verētrum: vereor only by scholars' etymology—may be cognate with Skt. varatrā, 'strap' (cf. σχοινίον, 'restis,' but in Aristophanes 'mentula angue lentior');

¹¹Bartholomae, Lex. 1612, derives G Av. $spaya\theta ra$ -, 'prosperitas,' from a present stem spaya-, comparing $g\bar{a}yatr\acute{a}$ -, $krnt\acute{a}tra$ -, tarutra- ('victorious'), etc. This explanation is valid in principle for $\phi\acute{\epsilon}\rho\epsilon\tau\rho \rho\nu$: Skt. $bh\acute{a}r$ -a-ti:: $\phi\acute{\epsilon}\rho\tau\rho \rho\nu$: Lat. fert, Skt. bharti, $\phi\acute{\epsilon}\rho\tau\epsilon$.

¹²In Gr. 1², § 536 Brugmann acknowledges the alternation e: \ni in ϕ έρετρον: Skt. bharitram (cf. also Kvg. § 213¹), but in Gr. 2. 3. § 24 again identifies ϵ in ἄνεμος γενέτωρ with Skt. i in ániti, janitár-.

unless veretrum (: Lat. urina etc.) still more simply meant 'waterer'; cf. $\sigma\omega\lambda'\eta\nu$, 'water-pipe: mentula.'

- 7. As regards the -i-tram forms (list in Macdonell's Vedic Grammar, § 152), believers in the dissyllabic bases will readily admit that the penultimate i, however widely diffused by irradiation, may be as legitimately derived from the $\bar{a}^{x}i$ bases as the u of $t \acute{a}r$ -u-tra- is derived from an $\bar{a}^{x}u$ base. Let us take for our instance the Vedic hapax bharitram. It probably means, as Böhtlingk has surmised (PW, s. v.), 'striker' and belongs in that case with Lat. ferit, not with fert. Even if the native interpreter defines correctly by 'arm,' the arm will still be a 'striker' (cf. cubitus catapultast mihi, Plautus, Cpt. 796). Clearly if bharitram is from bherēi, 'ferire,' its i is IE. i; and it will still be IE. i if from \(\shear bher, 'ferre,' \) cf. \(bhar \) man 'erhaltung' (: pra-bhárman, 'auftragen der speise'; note from the synonym √dher, dhárman-, 'ritus': dhárīman-i, 'arbitrio, ritu'), which, thanks perhaps to mere irradiation, has i from vi (cf. praefericulum, 'sacrificial tray': fer(i)culum, 'food on the tray').
- 8. As I have previously suggested, however, the entire extension of -itra- in Sanskrit may be due to irradiation. In caritram, 'foot, leg,' I have found a tautological compound (CQ. 8. 54), with a prius car-(: cárana-s/m, 'foot') and a posterius *itram, 'goer> 'leg' (cf. gā-tram, 'limb; wing' <'goer'; Lett. kāja, 'foot': klei 'goes,' Bezzenberger in KZ. 47. 82). The sole Avestan instance of -itra- is dvar-i\teara-m, leg' (:\sqrt{dvar}, 'ire'), and this is as likely as Skt. caritram to be a tautological compound. Thus the Indo-Iranian evidence for -itra- all converges on the sense of 'leg' and, to say nothing of irradiation from Skt. caritram to bharitram, mere formal analogy would produce from the Skt. pair cárate :caritram a corresponding pair like pávate, 'sifts': pavitram, 'sifter.' True, pav-i- may come from a base $pew\bar{e}(i)$, 'pavire' (cf. Hirt. Ablaut, § 408), not different in the end from $pew\bar{a}$, 'purgare.'¹³
- 9. No IE. suffix ∂s .—Of all the materials that have been perverted to the support of the equation IE. $\partial > \text{Skt. } i$ nothing is

¹³Walde, s. v. puto, develops the sense of 'purgare' from 'caedere,' without realizing that he thereby unites the $p\bar{u}rus$ -sept with the pavio-sept.

quite so airy as the equation between the suffixes of $\kappa\rho\epsilon$ and Skt. kravis. In krav-is is is true IE. is^{14} (cf. $\kappa\delta\nu$ is: Lat. cinis) and is attested in Greek by the Homeric gen. pl. $\kappa\rho\epsilon$ i $\tilde{\nu}$, with accent after $\kappa\rho\epsilon\delta\nu$, gen. pl. of monosyllabic stem krew- (: Av. $xr\bar{u}-m$, acc.) ¹⁵ graded like Av. gen. pl. vay-qm:vi- (cf. Skt. $v\epsilon-s$, nom. and gen. sg.; $v\acute{a}y-as$, nom. and acc. pl.). The Homeric neut. pl. $\kappa\rho\epsilon\acute{a}\tau a$ may be entirely identical (stem $krew-^nt-$), or in gradation (stem $kruw^nt-$), with Lat. cruent-a (Celsus and Pliny ap. Thes. LL. 4. 1238. 66): Av. xrvant- 'cruentus.' In the neut. sg. $\kappa\rho\epsilon\acute{a}s$ -as is entirely due to analogy, thus: dat. pl. $*\kappa\rho\epsilon\epsilon\iota(\sigma)-\sigma\iota$ (=Skt. $kravih-\check{s}u$): $\kappa\rho\epsilon\acute{e}\epsilon a(\tau)-\sigma\iota$:: n. sg. $*\kappa\rho\epsilon\epsilon\iota s$ (cf. gen. pl. $\kappa\rho\epsilon\cdot\iota\tilde{\omega}\nu$): $\kappa\rho\epsilon\acute{a}s$.

- 10. A word is also needed on the derivation of the $\kappa\rho\epsilon$ group. Along with Lat. caro, it belongs with the root ker, doublet $kr\bar{e}u$ (cf. § 46) 'to cut.' The u-root appears again in Av. xru-žd-ra-, 'hard,' cf. Eng. kard (i. e. 'what cuts'): \sqrt{ker} . In lexical Sanskrit $kr\bar{u}$ -d-ayati (\bar{u} d<usd), 'macht dick, fest,' the element -sd- is from \sqrt{sed} , and the complex is to be compared with Germ. festsetzen, as $\kappa\rho\dot{v}$ -σταλλοs and Lat. crusta (AJP. 34. 38) with feststehen.
- 11. Extension of the paradigms in -as.—The tendency to seek unitary, rather than heteroclitic, IE. paradigms in the historic forms of Greek and other tongues is far too pronounced. In the nouns in -as many different elements may be merged. As the paradigm of $\kappa\rho\epsilon$ has come from the interplay of stems in is $(\kappa\rho\epsilon\cdot\iota\tilde{\omega}\nu)$, -es (Lat. cruor), -nt- (Lat. cruentus, Av. xrvant-), and \bar{u} (Av. $xr\bar{u}$ -), a like upbuilding may be expected for $\kappa\epsilon\rho$ as, -es stem in Skt. ϵ aras: Lat. cerebrum (<h^1eres-rom, \(^1\epsilon\) not kerəsrom!), -nt stem in gen. $\kappa\epsilon\rho$ -a\(^1\epsilon\) os, -u stem in Av. $sr\bar{u}$ -; cf. -nu stem in Lat. cornu (:-\(^1\epsilon\) used (1) as the 'Greek Accusative,' but also

 14 Cf. also the ya/i stems in $kravya-v\bar{u}hana$ -s and \acute{a} -kravi-hasta-s (KZ. 45. 133, note 1), though -kravi- may here be a locative and the compound have meant 'non-insanguine-manus.'

 15 Cf. instr. κρυ-ο-, prius of κρυόεις, see TAPA. 44. 122; and on the \tilde{e}/\tilde{o} instrumental AJP. 38. 87.

¹⁰The *i* of Skt. *tamis-ra-*, 'tenebrosus' (: $t\acute{a}mas$ -, 'tenebrae') is no more from IE. \ni than is the *u* of $t\acute{a}rus$ -, 'proelium' (: $t\acute{a}ras$ -, 'impetus'); the *i* of $coc\acute{i}s$ - is the *i* of $coc\acute{i}s$ -.

- (2)=Lat. instar—may well be the prevocalic samdhi form of * dem^nt -i (loc. sg.) 'frame> body,' from 'that which binds, frames, incorporates.' In $\kappa \tilde{\omega}$ as $o\tilde{v}\delta a$ s, etc., the -es stem is also found ($\kappa \tilde{\omega} \epsilon a$, $o\tilde{v}\delta \epsilon o$ s) and, curiously enough, $o\tilde{v}\delta \tilde{a}\sigma \delta \epsilon$ may actually have come from $o\tilde{v}\delta a\tau \delta \epsilon$. With the -as stem -a stems also interplay, as in Homeric $\sigma \kappa \epsilon \pi a s$: $\sigma \kappa \epsilon \pi \eta$, with either -es or -a admissible in $a\tilde{v}\epsilon \mu o$ - $\sigma \kappa \epsilon \pi \epsilon \epsilon \omega v$. In any a dialect interplay of * $\sigma \kappa \epsilon \pi a$ '- $[\sigma]\omega v$ on * $\sigma \kappa \epsilon \pi \epsilon [\sigma]$ - ωv might have yielded, especially for $\dot{\rho}v\theta \mu o\hat{v}\delta \iota \pi \lambda \dot{\alpha}\sigma \iota \omega$, * $\sigma \kappa \epsilon \pi a$ - ωv (vv-). Monosyllabic stems also interplay with -as stems. Who shall say that $\gamma \epsilon \rho$ -a, alleged acc. pl., was not originally acc. sg. (: Av. gar-, f., 'laus'; cf. -es stem in garah-)? So Homeric acc. pl. $\kappa \rho \epsilon a$ may be an original acc. from neut. sg. *krew-r-t-, if not from fem. *krew-r-t-.
- 12. No. IE. 9 in Skt. 1st. pl. mid. -mahi.—IE. 9 is at most but the penultimate reduction stage of a long vowel (Skt. i of a long diphthong), the ultimate stage being zero (cf. Skt. ptc. -dhita-s; -ddha-s). The equation of $-\mu\epsilon\theta\alpha$ (primary and secondary ending) with Skt. -mahi (secondary only), GAv. -maidī, is a mere optation. In Homer, before vowels, at and -ot lost their -i in the meter (particularly in dialogue, cf. Shewan, Class. Weekly 9. 161), and similarly reduced forms must have dictated proparoxytone accentuation in forms like ἄνθρωποι λύεται. As Sanskrit -e has corresponding samdhi forms, the samdhi was probably proethnic. It is perfectly legitimate to regard $-\mu\epsilon\theta\alpha$ as the prevocalic samdhi form, but now adopted in the script, corresponding to Av. preconsonantal -maide, which in the Younger Avesta became secondary also. For the generalization of a single samdhi doublet note how in the Avesta, trifling exceptions apart, -a stems maintained only the form in -o as nom. sg. masc., and made of it a prius of composition as well.
- 13. Reduced $a^{x}(\vartheta)$ in Sanskrit.—In the ritual word $uddhat\bar{a}nta$ -s, raised end, -dhata- is explained as from -hata-, 'percussus,' and, in view of Germ. auf-schlagen, this derivation is semantically admissible. Nor is the samdhi ddh < d+h phonetically impossible in a complex of pure Sanskrit origin. But Skt. ddh < IE. $d+g^wh$ is unthinkable. In the funeral ritual (AGS. 4. 2. 11 sq.), where archaisms are even to be expected, $uddhat\bar{a}n$ -tas designates a clay bank thrown up in the corner of a burial-

plot to serve as a fire-emplacement or altar. In the Avesta ritual uz- $d\bar{a}na$ -m is an emplacement (1) for the cookpot at a burial (Vd. 8. 74) and (2) for the bones of a corpse (Vd. 6. 50). If we correlate the ritual word $uzd\bar{a}nam$ with the ritual word $uddhat\bar{a}ntas$, then uddhata- will be a ptc. to $\sqrt{dh\bar{a}}$, cf. $\theta\epsilon\tau\delta$ s and Av. da- θram , 'festsetzung.' So in Greek $a\nu a$ - $\tau i\theta \eta \mu \mu$ is used of 'erecting an altar.'

14. No IE. b and δ sounds: ἄρκτος, 'bear.'—A glaring instance of phonetic bravura is exhibited in the current primate for ἄρκτος (ἄρκος/ἄρκιλος): Skr. rkša-s, Av. arša- (perhaps graded like Lat. ursus), Gallic artos. This primate is *rk1pos, wherein the notation k^1 has for its object to differentiate this equation from those in which ξ matches Skt. $k\check{s}$. For *r k^1 *pos, drawn out of the circumambient atmosphere, $*rk^1st(h)$ os were quite as admissible, and $*rk^1st(h)$ os admits of two or even more derivations. Nor are derivations to be scorned in linguistics because, from another point of approach, they offer some, albeit an elusive, control over the original phonetic constitution of the primate. One primate is $*rk^1[i]$ -sthos, 'cave-dwelling' (see Bull, of the Univ. of Texas, no. 263, § 791), a sense prettily accordant with our knowledge of the palaeologic cave bear; and apt for the byforms άρκος, άρκιλος (*r[k1i]-k1os/k1ilos, 'in cave lying'; cf. Skt. giriças, ὀρεσκῷος). But the bare primate *rk¹s-tos yields the sense 'iniuriosus' (cf. ap. Uhlenbeck, Skt. arçasānás and its cognates). and herein -to- is a suffix otherwise employed in animal names (Brugmann, Gr. 2. 1, § 311; on -stho/st(h)i see AJP. 37. 38, n. 2).

15. Given a primate **rk¹stos, $\rho\kappa\tau$ <*rk¹st may be accounted normal, and we may then explain the predominance of s over t in Sanskrit and Avestan by the influence of $uk\check{s}an$ -, 'bull' (- $uk\check{s}a$ -s), and other Indo-Iranian names of animals in -*r\check{s}an-(cf. Gr. 2. 1. 296; 2. 2. 653); or to the general prominence of the suffix so in IE. animal names (Gr. 2. 1, § 472, e). In such class names suffixal assimilation, Bloomfield's 'congeneric adaptation', is to be expected. There is no reason why the Indo-Iranic primate of Skr. ' $rk\check{s}as$ (: Lat. ursus) need ever have been anything but * rk^1s -o-s, 'nocens.' In Gallic artos rt may continue (1) $rk^1[s]t$ (cf. OIr. ort, 'er ersehlug,' <*orcht), or (2) $r[k^1]st$ (cf. OIr. tart,

- 'thirst,' ap. Thurneysen, Gr. § 178). It calls for really sharp criticism that, for no other reason in the world save to provide documentation for the t (out of a putative \flat) in artos, OIr. tinaid, 'evanescit' (cf. $t\bar{e}idm$ 'pestis'), has been separated from the sept of OEng. $\flat winan$, 'to pine, dwindle' (see Walde, s. v. tabeo) and equated with $\phi\theta\ell\nu\epsilon\iota$ (§ 41).
- 16. Hariolation has never gone further in empiric—and constructive—phonetics than in the setting up of the entire category of etymologies for which be and be have been claimed. These I propose presently to examine in detail, but it will make for clearness first to treat apart a few questions that would otherwise arise in the course of the detailed etymological discussion.
- 17. Consonant metathesis in Greek (πίκτω <*τιτκω): πτολεμος/ πόλεμος.—In 'Αρχε-πτόλεμος we have the composition type of Av. vanat-pešana-, 'winning-battle,' in which -at may be IE. -et (cf. Gr. 2. 1, § 313, γ; and § 49 below); or else, -nt. If the latter, as currently believed, prim. Gr. *'Αρχατ-πολεμος (whence by metathesis *'Αρχα-πτολεμος) was revocalized after the 'Αρχέ-κακος type, cf. OPers. xšayāršan- (ā <a+a), 'ruling-man,' with Skt. kšayád-vīra- (same sense); and μενε-χάρμης with its synonym μενε-πτόλεμος (πτ for $\tau\pi$). For its metrical convenience -πτολεμος was stereotyped as a simplex. ' 'Αρχε-πτολις is not of record (cf. ἀρχέ-πολις), but περσέ-πτολις has an aoristic prius περσετ-< περ-θ-σετ (see Gr. 2. 3, § 256 for the type); cf. OLat. peséstas, 'pestilentia,' (< perdset +stāt- 'regio': Germ. stadt) and haplological pestis (posterius -sthi-; or else cognate with Skt. stīn, acc. pl., 'gentem'; cf., with due alterations, AJP. 34. 38).
- 18. The IE. prepositions $e-k^1s/i-k^1s-/k^1s-(g^1hs-)$.—On the composite nature of $e-k^1s$, with the suggestion of $i-k^1s$, Brugmann has already made a suggestion (Gr. 2. 2. 640). Of the preverb ik^1s -really clear and relatively numerous examples exist. In Sanskrit we have $i\check{s}-kar-t\acute{a}r$ -, 'ef-fector' ($<ik^1s-skartar$ -, pace Güntert, nuper), i. e. 'zurüster'; $i\check{s}-k^rtis$, heilung' (i. e. 'effectio artis magicae,' ef. $krty\bar{a}$, 'magic'); $i\check{s}-t\acute{a}ni$ -, 'rauschend' (i. e. 'ex-

[&]quot;It seems not to have been noticed that Skr. hodha-, 'stolen property,' is a discomposite of sahodha- $(o < a + \bar{u})$, 'furtum'; nor that the Skt. preposition saha is a discomposite from the type of saha-vatsa-s, 'with a calf,' cf. $e^2\chi e$ - κ o λ os, 'having glue; with glue', $e^2\chi \omega$ ν 'with.'

tonans'); iš-ṭárga-, 'vor- oder neben-kämpfer des hauptkriegers' (-targa- cognate with Hesychian $\tau a \rho \gamma \acute{a} \nu a i \pi \lambda \acute{o} \kappa a i$ and $\sigma a \rho \gamma \acute{a} \nu a i$ $\delta \epsilon \sigma \mu o i$: $\sqrt{twer-g}$ -, cf. Lith. $tw\acute{e}rti$, 'fassen, zäunen'). Thus the išṭárgas was an 'out-shield,' cf. $\acute{a} \sigma \pi \acute{i} \delta \epsilon$ s and Eng. lances, bayonets, terms designating soldiers by their arms.

19. Greek examples of i-k¹s are scarcely less transparent. ἰκ-τῖνος 'kite' (note also pl. $i\kappa\tau\tilde{\imath}\nu$ - ϵs) from $i\xi+[\sigma]\tau\tilde{\imath}\nu(o)$ -, 'thief,' cognate with Skt. $sten\acute{a}$ - $s/t\ddot{a}y\acute{u}$ -s (ef. $t\ddot{a}s$ - $\lceil s \rceil karya$ -m, 'furtum'). The 'weasel, ' ἰκ-τί-δ-, was also, like the kite, a thief (see e. g. Kluge's Wbch. s. v. frettchen). The root of the posteriora $-\tau i\nu(o)$ - and -τι-δ- was $(s) t\bar{e}(i)$, as in Lat. mus- $(s) t\bar{e}la$, 'mouse-thief'> 'weasel.' We have r and l extensions of the root in $\sigma \tau \epsilon \rho i \zeta \omega$, Goth. stilan (: Lat. tollit, 'lifts, takes, steals,'18 cf. $\phi \omega \rho$: $\phi \epsilon \rho \epsilon \iota$, noting for the suppletion of fero/tuli the Greek combination οὐ τλατᾶς οὐ φερτᾶs in Euripides, Hec. 159). See on stilan JEGPh. 6. 244. Those who write the root as $st\bar{a}i$ are misled by Doric $\tau a\tau \omega \mu \epsilon \nu os$, 'desiderans, pining for, darbend.'19 ιχθύς, 'fish,' is also a compound of ik^1s - $(iq^1hs)+dh\bar{u}$ -s. Whether the original sense was (1) 'gasper, panter,' i. e. 'efflans' (cf. Herodotus, 9, 120, ησπαιρον ὄκως περ ἰχθύες νεάλωτοι), or (2) 'croaker, bubbler,' dhū- belongs with OBulg. duję, 'efflo.' In view of the IE. alternation $\bar{\imath}w/y\bar{u}/\bar{u}$ (see Wackernagel, Ai. Gr. 1, § 81; Fay, JEGPh. 12. 417) -dhū-s is not to be separated from Skr. dhīva-rá-s, 'fisher.' Cf. also Lat. suf-fio, 'fumigo,' probably contracted from *suffivio.

19a. Sanskrit $hy\acute{a}s$, 'heri,' and other time adverbs.—The doctrine that IE. kj (j more spirantic than y, but there was really no such sound, see CQ. 9. 104 sq.) yields $\kappa\tau$ is responsible for the equation of $i\kappa\tau i\nu os$ with Skt. $cyen\acute{a}-s$. Just as little is the $\chi\theta$ of $\chi\theta\acute{e}s$ from IE. g^1hj . Skt. $hy-\acute{a}s$, 'yesterday,' is a temporal gen.

¹⁸Note may here be made of Skt. -trp-, 'stealing,' Av. $\sqrt{tar}p$, with a p taken over from the root of $\kappa\lambda\epsilon\pi\tau\omega$, though, indeed, it may be that \sqrt{klep} was an IE. by form for \sqrt{tlep} .

¹⁹Leo Meyer, Hdbch. 2. 744, also gives 'ermangelnd,' with sane, but neglected, comments on the definition. The root was $t\bar{a}i/t\bar{a}u$, 'to thaw, pine.' As Meyer also suspected (2.721-722), $\tau\eta\dot{\nu}\sigma\iota\sigma$, 'vanus,' is to be connected with Skt. $t\bar{a}$ -vat-i (loc.), quasi 'tantuli' (cf. Lat. huius with depreciatory sense). He also (2.184) properly connects $a\nu\sigma\iota\sigma$, 'vanus,' with $a\nu\tau\sigma$.

from IE. $g^1h\bar{e}i$ - $/g^1h\bar{i}$ -, 'the past' (: $\sqrt{gh\bar{e}i}$, 'discedere, evanescere'). Lat. her-i is from the IE. heteroclitic stem ghes- (cf. Skt. dhas-: $\sqrt{dh\bar{a}}$); $\chi\theta$ - $\dot{\epsilon}s$ / $\dot{\epsilon}$ - $\chi\theta\dot{\epsilon}s$, also a temporal genitive, is from still a different heteroclitic stem, IE. $g^1h\bar{e}$ -t-, gen. - g^1ht -és (cf. Lat. $d\bar{o}$ -t-, 'gift': Skt. -tti- in bhága-ttis). Elean $\sigma\epsilon\rho\delta\dot{s}$ $\chi\theta\dot{\epsilon}s$ (Hesychius) is from gen. g1hy-er-os, cf. Skt, uš-ar- (cpd. prius) 'mane,' Skt. vās-ara-s, 'matutinus,' χείμερος. Το complete this group of words: (1) Lat. crā-s (temporal gen., cf. crás-ti-nus) is from k^1r - \bar{a} -, 'break' (of day; for semantics of 'tomorrow' cf. Span. mañana, Fr. demain): Av. fra-sara, 'cras' (Zend-Pehlevi Glossary); root in Skt. $c^r n \bar{a}' t i$, 'breaks.' (2) Skt. cv-as 'cras' is also a temporal gen. from $k^1\bar{u}$, 'swelling, auctus' (cf. Homer's description of the morn ὄφρα μεν ήως ην καὶ ἀέξατο ἱερὸν ημαρ, ι 26; Θ 66). (3) Other femporal genitives are found in the Skt. advb. $sa-dy\acute{a}s$, 'eodem die'; $-dy-\acute{a}s$ from a stem $d\bar{a}i-d\bar{\iota}$, cognate with Eng. ti-me ti-de ($\sqrt{d\bar{a}i}$, 'dividere'). Cf. also [see AJP. 38. 231], with loc. di, Skt. sada-di, 'usually,' quasi 'cottidie'; with stem -di-, sadam-di-s, 'sempiternus'; with stem dyo- / diyo-, ἀί-διος, 'sempiternus,' μινυνθά-διος, '*breviternus' (but cf. διχθά-διος, 'twodivided' with διχθὰ δεδαίεται, ο 23). The -dyás of sadyás recurs in $\chi\theta\iota$ - $\zeta\delta$ s (prius $g^{1}ht$ -i, loc. : $g^{1}ht$ -es, gen.), generally an advb. in Homer. (4) In Skt. a- $dy\tilde{a}'$, 'hodie' (? < h > o-die) - $dy\tilde{a}$ may be an instrumental (fn. 15), or compounded of loc. $-di+\tilde{a}$ (IE. ē, 'dar'), cf. Av. zastay-a, 'manu-in.' (5) Abl. -dy-os in Latin nudius tertius=from-now-tide the third <day>.

- 20. In Latin, *i-mago*, 'impression (in wax),' certainly belongs with $\tilde{\epsilon}\kappa$ -μακτρον, 'impression of the feet' (Euripides, *Elec.* 535); see KZ. 45. 114. Its $\tilde{\imath}$ -, if not due to popular association with *imitor*, may come from ik^1s -, $\tilde{\imath}mago$ —for which there is some evidence in Lucr. 4. 101; Cic. *Tusc.* 1. 34; cf. IF. 26. 42—having been shortened by the law of *conscrĭbûlo* (AJP. 31. 384), cf. $\tilde{\alpha}tr\bar{o}ces$ (Fay, ap. Walde, p. 867). Cf. Av. maga-, 'pit (? in the clay) about the altar,' cognate with $ma\bar{e}\gamma a$ 'pit': $\sqrt{m\bar{a}(i)g/m\vartheta ig}$.
- 21. Incontrovertible proof of g^1hs (k^1s -, v. examples infra, § 25, sq.) is found in Skr. $dh\bar{a}ukate$, 'appropinquat,' which has $dh < g^1hst$, whence $g^1zdh > \text{Skt. }dh$. The uncompounded root, in a weak form, was tuk (cf. Miklosich, Slav. Wb. s. v. 2tuk, 'berühren, anstossen' <: $\tau \dot{\nu} \kappa os$, 'battle-ax, pick'>). Like Lat.

- 22. The IE. preverb bhe, 'ex, extra,' has been inferred by Brugmann, $(Gr. 2. 2, \S 625)$ from Slavic be, 'extra>sine': Skt. ba-his, 'extra.' It is remarkable how many simple etymologies can be adduced in support of this preverb: (1) Skt. bha-sid-, 'podex' (?<po+sd+ek-), lit. 'exsedens'; (2) ϕ -ou-tio<bhe+oito-(ptc. to \sqrt{ei} , of the type of ϕ io τ os: \sqrt{bher})=ex-itus (cf. also Brugmann, IF. 28. 288); (3) Lat. fe-stino, -stino being nearest akin, semantically as well as morphologically, to Lith. staig-nai, 'confestim,' while confestim (?-m from statim) is from -fe-stoiti-(-stiti-i), instrumental of an -i abstract from \sqrt{st} ei-gh—unless Lith. stiju, 'I tread' (i. e. ' $\sigma \tau$ ei/ χ o') rather attests a briefer root-form st(h)ei; (4) Lat. fe-stūca, 'stalk' (lit. 'exstans'), cf. Skt. stûk \bar{a} , 'tuft,' and other cognates ap. Boisacq. p. 902-3. Before accented verbforms (Brugmann, Kvg. \S 42. 4 c; \S 45. 4) bhe-was liable to reduction to bh-.
- 23. Alleged instances of IE. \triangleright , δ . The latest collection of the etymologies involved will be found in Brugmann-Thumb, Gr. Gram. \S 117. These, with a few more from other sources, will now be reviewed, not without a full sense of the reader's prejudice in favor of the older combinations to which he has been long inured.

²⁰In Greek, πέλαs is a nom. advb.—'striking, touching, near' (: πίλναμαι, **cf.** ad-pellere, 'to bring near'). When next Walde considers appellare let him recall Eng. accosts.

- 24. $\kappa\tau i\lambda os$, 'still, tame.'—Already correctly explained in substance in Bull. § 79, note 2, as a blend of * $\sigma\tau\iota\lambda os$ (: \sqrt{sthai} , cf. Eng. still, a later secondary derivative) $+k^1(w)i\cdot los$, cognate with the posterius of Lat. tran-quillus.²¹ As for $\kappa\tau i\lambda os$, 'ram,' it is unlikely that this ever meant 'tame.' The ram was rather the 'settler' in a sexual sense (cf. cognates of $\kappa\epsilon i\mu a\iota$ ap. Boisacq). Or κ - $[\sigma]\tau i\lambda os$ —'a grege extans,' applied to the ram at seasons when he was 'non admissarius,' as indeed daily to the milkingpen.
- 25. κτύπος. Compacted of τύπος, 'blow, din,' and κόπος, blow,' unless from (ἐ)κ-τύπος, 'out-din.'
- 26. [ϵ]κ-τείνει, 'slays' < 'sternit, prosternit' (i. e. 'stretches out on the ground'). Augmentless forms like ἔκ-ταθεν, 'extendebantur (humi)' were falsely analyzed as ἔ-κταθεν. Note the following Homeric examples. Δ 544, πρηνέες ἐν κονίησι παρ' ἀλλήλοισι τ ἐ τ α ν τ ο; N 655, θυμὸν ἀποπνείων. . κ ε ῖ τ ο τ α θ ε ί ς ('iacebat extensus'> mortuus); Φ 119, πρηνὴς ἐπὶ γαίη κ ε ῖ τ ο τ α θ ε ί ς (cf. Euripides, Phoen. 1698, ἐ κ τ ά δ η ν κ ε ῖ σ θ ο ν=quasi 'extensim iacete'); Δ 536, ἐν κονίησι παρ' ἀλλήλοισι τ ε τ ά σ θ η ν continued by πολλοὶ δὲ π ε ρ ι κ τ ε ί ν ο ν τ ο καὶ ἄλλοι (cf. M, 245). With N 655, Φ 119, Phoen. 1698, especially compare Δ 691, κατὰ δ' ἔ κ τ α θ ε ν ἔσσοι ἄριστοι (also γ 108, E 858, N 780) and δ 537, ἔ κ τ α θ ε ν ἐν μεγάροισιν.
- 27. $\pi\epsilon\rho\iota$ -κ-τίονες, 'circumhabitantes,' more literally 'spreading around (circumtendentes).' The prius may be $\pi\epsilon\rho\iota\xi$ compounded of $\pi\epsilon\rho(\iota)+i\xi$ (§ 21), or of $\pi\epsilon\rho$ $i+(\epsilon)\xi$; the posterius -τίονες belongs with Skt. $\sqrt{t\bar{a}y}$, 'to stretch, spread,' doublet of \sqrt{tan} (§ 35); cf. $\pi\epsilon\rho\iota\kappa\tau\epsilon\iota$ νοντο cited above (§ 26), and Skt. $pari+\sqrt{tan}$, 'umgeben'. But $\pi\epsilon\rho\iota\xi$ may be from $\pi\epsilon\rho\iota+k^1s$ (§ 21); cf. IE. $prok^1s$ in Lat. proximus: Skt. prašthas ($< prok^1s+sthos$),' vorangehend, 'praštis' 'seitenmann, ein nebens tehendes seitenpferd' (AJP. 37. 70, n. 3). The word praštis furnishes indubitable evidence for Sanskrit deaspiration in the sequences with sthy (l. c. 65, n. 2). But $\pi\epsilon\rho\iota\xi$ may belong with $\pi\epsilon\rho\iota$ - $\sigma\sigma\delta$ s, running over $(-\sigma\sigma\delta s: -\sigma\sigma\epsilon\iota\omega)$; see § 19, in the essay below.

²¹Tautological compound of *drāmo-, 'sleeping' (: Skt. $\sqrt{dr\bar{a}}$, Lat. dormit) +*quilnos (:quies). The root was $k^1(w)\bar{e}i$, as found in κείται: Lat. quies, whence Greek might have had in fact both *τιλοs and *κιλοs

- 28. 'Αμφι-κ-τύονες, 'circumcustodientes.' Here the -κ-, as well as the bad spelling with antepenultimate ι for v, is due to imitation of περικτίονες; and -τύονες really belongs with Lat. tueor.
- 29. Skt. kšanóti, 'wounds,' belongs with Cretan κατα-σκένη, aor. opt. κάνοι, 'deleat,' OPers. vi-kanāhy, 'deleas.' The root $(s)k^{1}(h)en$ is a doublet of $sk^{1}(h)\bar{e}i$ (see references in § 3), as to which, with all its phonetic varieties, see Boisacq. s. v. σχάζω. Original Greek forms in $(\sigma)\kappa\epsilon v/(\sigma)\kappa ov$ yielded to the $\kappa\tau\epsilon v/\kappa\tau ov$ forms of § 26. [The last sentence is due to a suggestion of Professor R.G.Kent.]
 - 30. ἄρκτος, and the "bear" -sept. See § 14.
- 31. Skt. $t\acute{a}k\check{s}ati$: Lat. texit, $\tau \acute{\epsilon}\kappa\tau\omega\nu$.—The primate was tek^1seti 'weaves, binds, builds.' Between the $\kappa\tau$ of $\tau \acute{\epsilon}\kappa\tau\omega\nu$ and the $k\check{s}$ of Skt. $t\acute{a}k\check{s}an$ -, 'builder,' a precise phonetic equation does not, and certainly need not, obtain. The primate of $\tau \acute{\epsilon}\kappa\tau\omega\nu$ was tek^1s -(t) en- (second t also subject to loss by dissimilation, see Bull. § 77), compacted of the rootnouns tek^1s and ten- ('stretcher weaver,' cf. Lidén, IF. 19. 332). In Greek, $-\kappa\tau$ $< k^1st$ is normal (in $\grave{\epsilon}\kappa[\sigma]$ - $\tau \acute{\epsilon}\iota\nu\omega$, e. g.). Or else, in Greek $\tau \acute{\epsilon}\kappa(\tau)\omega\nu < \tau >$ is due to a blend of $*\tau \acute{\epsilon}\xi\omega\nu$ and of $*\tau \acute{\epsilon}\kappa[\sigma]$ - $\tau \omega\rho$ (: Lat. textor, with x for c by re-derivation). Bear in mind also the IE. interchange of the suffix t(w)en with fem. t(w)en, an interchange extended in $\pi \acute{\epsilon}\pi \acute{\epsilon}\iota\rho\sigma$: $\pi \acute{\epsilon}\pi\omega\nu$ beyond the range of wen stems (see Bull. § 88, note 1; infra, § 48); cf. $\bar{\imath}\dot{\epsilon}var\acute{a}s$: Av. isvan-.
- 32. ὅκταλλος, 'eye' (see also Bull. § 79, note 2). The primate was ok^w -tlos 'seer,' extended to ok^w -tl-nos (? also in Lat. ocellus, if from *occéllus). On the suffix -tlo- see Brugmann, Gr. 2. 1. 345. In the Skt. dual ak-š-i š belongs with (e)s in OBulg. gen. sg. očese, see Boisacq, p. 722. The delabialization of ok^w took place in *okyomai> ŏσσομαι and in *okye> ŏσσε. For the principle see Osthoff in IF. 27. 174. On the š of Av. aši see provisionally § 9fn., below.
- 33. Av. š-itis, Skt. kš-itis, 'dwelling.'—The primate was [e] k¹s-itis, 'exitus,' ef. Skt. ud-yānas, 'out-going'> 'garden, park,' and Eng. dwells <'wanders.' Skt. kš-étram was originally the 'out-field,' (ef. ager Romanus, used of extramural territory), as Av. čarāna-, 'field,' was the 'locus errationis'; ef. Lat. colonia i. q. 'praedium colono commissum' (see Thes. LL. 3. 1704, 49).

Or $k\check{s}\acute{e}tram$ (root $sk^1h\check{e}i/k^1s\check{e}i$, see § 29) was a 'cutting': $\sigma\kappa\tilde{i}$ - $\rho\sigma$ s, 'copse, copseland'; cf. Eng. thwaite: Norweg. tveit and Fr. coupe, 'clearing'; and see TAPA. 37. 18.

- 34. Skt. $k\check{s}$ - $atr\acute{a}m$: Av. $x\check{s}$ - $a\theta$ ram, 'regnum.—The primate was ksw- a^xtrom . On ksw-, $\xi\acute{v}$ -v: Lat. co-, etc., see TAPA. 44. 115 sq. and JAOS. 34. 332; supra, § 2. The posterius - a^xtrom belongs with Skt. \sqrt{at} , 'errare': $atas\acute{a}m$, 'gebüsch, gestrüpp.' To the evidence for IE. \sqrt{et} presented in TAPA., l. c., add $\dot{\epsilon}\xi$ - $\omega\tau\iota\kappa\acute{o}s$, 'out-landish' (Plautus), Av. gav- $a\theta ya$ -, 'cow-herd' (: Goth. aw- \bar{e} -pi, 'sheep-herd').²² With $k\check{s}$ - $atr\acute{a}m$, 'gefilde,' cf. Av. $x\check{s}$ - $a\theta r\bar{\imath}$, 'weib' < 'co-errans.' As a collective, $k\check{s}atr\acute{a}m$, 'regnum'= quasi 'reges,' but the original sense of $k\check{s}$ - $atriy\bar{a}s$ may have been 'co-errantes,' members of the wandering band of Aryan invaders,
- 35. κ - τ i σ is 'settlement,' Rhod. κ τ o \tilde{i} - ν a, 'township.'— κ τ i \tilde{i} ¢ ϵ i clearly means 'establishes a settlement (colonizes) beyond the bounds of the home land. It is a compound of $[e]k^1s-+*ti-dy$ éti (ti- 2 3: Skr. \sqrt{t} dy, by form of \sqrt{t} an—see § 35—'to stretch, spread out'; cf. also on π ϵ ρ i- κ - τ io ν es in § 27, above). This root has developed the sense of possession in Lat. tenet, obtinet, 'spreads over,' as in Livy 29. 27. 7.
- 36. κ - τ áo μ a ι , 'obtineo,' κ - τ η μ a τ a, 'cherished holdings.'—Unless these have $\kappa\tau$ from $\tau\kappa$ (see Bull. § 79, note 2), they come from a compound of intensive $[e]k^1s+\sqrt{t}\bar{e}i$, 'tenere' (cf. rootnoun *t- \bar{a} in § 35). Or κ may be due to a blending of * $\tau\eta\mu$ a τ a with $\kappa\epsilon\iota\mu\eta$ $\lambda\iota$ o ν ($\kappa\tau$ $\tilde{\eta}\mu$ a $\tilde{a}\pi$ δ θ $\epsilon\tau$ o ν , Eustathius), though $[\tilde{\epsilon}]\kappa$ in $\kappa\tau$ $\tilde{\eta}\mu$ a would give the note of $\tilde{a}\pi$ δ θ $\epsilon\tau$ o ν . Dat. pl. κ - τ $\tilde{\eta}\nu$ e σ σ ι (h. Hom. 30. 10), 'pecudibus,' may attest a collective κ - τ $\tilde{\eta}\nu$ os, 'tied-out': tenet, 'binds,' OBulg. teneto, 'net, tendicula.' For pecus, 'tied,' see

²²Also σ - $\tilde{\omega}$ τρον (<ksw+ \bar{o} trο-, 'goer. leg spoke of a wheel'; cf. wheel=- 'goer' in Walde s. v. colo), collectively used of the 'felloes' constituting the rim over the spokes; hence $\dot{\epsilon}\pi i$ - σ σωτρον, 'tire.' On the phonetics of ksw- see above, § 2.²

²²I explain ti- as a locative (=infinitive) to a rootnoun $*t\bar{a}(i)$. The posterius $-dy\acute{e}ti$ is a composition-form of $\sqrt{d\bar{o}}$ (cf. OBulg. dajom, 'I do' like Skt. $dy\acute{a}ti$: $\sqrt{d\bar{a}}$, 'vincire'). The $-dy\acute{e}ti$ (Gr. $-\zeta\epsilon_i$) conjugation arose from syntactical groups with infinitivals, cf. Lat. in conspectum dare, causalis to conspicere; in fugam dare, causative to fugere (cf. also § 42, end). In like manner $\sigma\chi l$ - $\zeta\epsilon_i$ may mean 'in scissuram dat' (AJP. 37. 170).

- TAPA. 41. 34. The nearly synonymous Avestan root $x\check{s}\bar{a}(y)$, 'adipisei, potiri': Skt. $k\check{s}\check{a}yati$, 'potitur, regnat,' is quite different, being a compound of intensive $[e]k^1s$ with the root $s\bar{a}^x(i)$, doublet of Indo-Irarian \sqrt{san} , 'adipisei.' With Av. $x\check{s}-\langle k^1s-s-(but\ \check{s}\langle k^1s))$ cf. Skt. $-k\check{s}-\langle \check{s}s.$
- 37. $[\epsilon]_{\kappa-\tau\eta}\delta\omega\nu$, 'vein' (of a tree, in German called *faser*, i. e. 'filament'). The original sense was 'stretching out'> stretched out, thread, filament, fibre'; cf. $\tau\epsilon\nu\omega\nu$ etc., ap. Walde, p. 771, remade in late Latin as tendo, 'tendon.'
- 38. $[\dot{\epsilon}]_{\kappa-\tau\dot{\epsilon}\rho as}$, 'cherished possession, keepsake,' $-\tau\epsilon\rho as: \tau\eta\rho\epsilon\bar{\iota}\nu$, 'curare (aliquem)'; $[\dot{\epsilon}]_{\kappa-\tau\dot{\epsilon}\rho as}$ quasi 'ex-curatum.' OBulg. chraniti 'servare' (: Av. haurvaiti, see Berneker, Slav. Wb. 1. 398) is not related.
- 39. $<\gamma>\deltaοῦπος,²⁴$ 'pounding noise,' arose by misdivision of $\epsilon \rho i \gamma \delta o v \pi o s$, epithet of Zeus, the pounder with the thunderbolt. With $\epsilon \rho \iota \gamma \delta o \cdot$, 'pounding' (: $\epsilon \rho \epsilon i \kappa \epsilon \iota$ 'pounds'), cf. $\beta a \delta \delta s$, 'walking,' $\lambda i \gamma \delta o s / \lambda i \gamma \delta a$, 'mortar' (see Boisacq, s. v.). The posterius, $-v \pi o s$, belongs with Skt. \sqrt{vap} , 'icere' (cf. -u d y a s, 'effabilis': \sqrt{vad} , 'fari'), and with u p a l a, 'upper millstone' (originally 'pestle').²⁵ Thus (γ) $\delta o \tilde{v} \pi o s$ is a false discomposite (cf. § 17, note 17), unless $\gamma \delta o \cdot$ be connected with Skr. $g a d g a d a \cdot$, 'gestammel,' or with $g a d \bar{a}$, 'club, pestle,' and the entire compound interpreted as 'very-pestle-striking.' Here note $i \gamma \delta \eta$, mortar' ($i \gamma \delta o s$, 'noisy dance'), from the root of Lat. i cere, 'to strike.' The feminine $i \gamma \delta \eta$ is probably a reciprocal to * $i \gamma \delta o s$, 'pestle,' cf. $\lambda i \gamma \delta o s / \lambda i \gamma \delta a$, 'mortar' above.
- 40. Competition between $[e]g^{1}hs > g^{1}zh$ and $[e]k^{1}s$.—Skt. $k\check{s}\check{a}rati$, 'effluit, evanescit,' is a compound of $[e]k^{1}s + \sqrt{ser}$,

²⁴Not an aphonetic variety of $\kappa\tau$ ύπος (§ 25), nor connected with $(\dot{\epsilon}\chi\theta_0-)$ δοπός, 'hostile,' which is from * $\dot{\epsilon}\chi\theta_0-\dot{\delta}\delta_0-\pi$ ος, 'on an outroad keeping' ('insidiator'); $\dot{\epsilon}\chi\theta_0-$ (like $\dot{\delta}\pi\iota\sigma\theta_0-$ in compounds) belongs with $\dot{\epsilon}\chi\theta$ ός $\dot{\epsilon}\kappa\tau$ ός (see ap. Heerwerden, Lex. $\ddot{\epsilon}\chi\theta$ οι $\dot{\epsilon}\xi\omega$), and ultimately with $\dot{\epsilon}\chi\theta$ ρός (see AJP. 31. 420).

²⁵ ὕπερος/ὅπερον, 'pestle,' are not derived from ὕπερ, 'over,' but conversely. Likewise ὑπό is derived from the under of the two pounders. The root was (s) wep (cf. Lat. super), see Walde, s. v. dissipo. On (k) sw-, 'co-,' see § 34.

²⁶But gadā and gadgadas may be united under a root gad, 'to break, crack,' Scottice usurpatum.

'fluere.' In the Avestan causative $vi-\gamma \check{z} \tilde{a} raye iti$, 'effluere facit,' $\gamma \check{z}$ (alternating with $\check{z}\gamma$) represents IE. g^1zh , cf. on $dh\bar{a} \acute{u} kate$ in § 21. In Av. $a-\gamma z\bar{o}$ nvamna-, 'non desinens' (for $a-\gamma \check{z} anvamna$ -, according to the lexicon of Bartholomae), $\gamma \check{z} anv$ - is a present stem composed of g^1zh , 'ex,'+sa-nu-: $\sqrt{s\bar{e}(i)}$, 'decrescere' (cognates in Walde, s. v. sino). Further cf. § 42-43.

41. ϕ - θ είρει, 'destroys.'—From a primate compounded of bh(e), 'ex' (see § 22) + \sqrt{ster} , 'sternit, prosternit.' But the Greek root $\phi\theta$ ερ may be a blend of ϕ ερ (: Lat. ferit, 'strikes')+ θ ερ (: Skt. $dh\bar{a}'r\bar{a}$, 'schneide, klinge'). The compounds of $\phi\theta$ είρει cited by Brugmann, Gr. 1² § 920. 4, admit but by no means require the definition of $\phi\theta$ είρειν by a metaphorical 'fluere'.

φ-θίνει, 'delet,' φ-θίει, 'evanescit,' φ-θίσις, 'tabes.' A. Four (and more) roots in $i: \bar{a}^x i$, with the sense of 'to vanish, flow (off), become weak, decay' are of record, namely: (1) tw-i, akin to $t\bar{a}i/t\bar{a}u$, in Lat. tabeo, etc. : (2) $dhw-\bar{i}$, in English $dwindle;^{28}$ (3) $sw-\bar{i}$, in German schwinden; (4) $gw-\bar{i}$ or $g^w-\bar{i}$ in Skt. $jin\bar{a}'ti$, 'senescit.' Add (5) Skt. \sqrt{ri} , 'fluere,' and (6) * $l\bar{\imath}$ in pra-laya-s (:Lat. $l\bar{e}tum$). By combining bh(e), as in § 41, with either $tw-\bar{i}$ or $dhw-\bar{i}$ we get $\phi-\theta\bar{i}$. B. The root bhēi, 'κόπτειν' (cognates in Berneker, Slav. Wb. 1, 117; cf. AJP. 32. 403 sq.) was also entitled to forms meaning 'caedere, schlagen' (: Eng. slays, 'necat'), and to an abstract *bhitis, 'κόπος' (in the sense of 'exhaustion, fatigue'), so that ϕ - θ ious might be a blend of * $\phi_{i\sigma is}$ (: $\sqrt{bh\bar{e}i}$) and * $\theta_{i\sigma is}$ (: $\sqrt{dhw\bar{i}}$)—C. Or, to reason analogically, $\phi\theta$ - may come from IE. bhy- as $\pi\tau$ - comes from py-. In that case, a root \sqrt{bhy} - \bar{a}^x (extension of, and frequently incorrectly written for, bhēi) might have had an abstract*bhy-o $tis > *\phi \theta \alpha \tau is$, whence $\phi \theta i \sigma is$ (vowel from $\phi \theta i \nu \omega$), cf. ϕ - $\theta i \nu \omega$, 'dwindling, pining, envy,' if from \sqrt{bhy} -en. From \sqrt{bhy} - \bar{a}^x (or \sqrt{bhy} - $\bar{a}^x i$) $\phi \theta \acute{a} \nu \epsilon \iota$ is derived, answering semantically to Eng. beats, 'anticipates,' as in 'beats running.'—D. Or φ-θιτός, 'annihilated,' belongs with differently graded Skt, bā-dhi-tá-s, 'annulled.' Skt.

²⁷No well-developed IE. root *dher*, 'caedere,' is known to me, but as *bher*-forms would have the competing senses of 'ferre' and 'ferre' forms of \sqrt{dher} , 'ferre,' were analogically liable to the sense of 'ferre.' ²⁸Cf. also $\theta \acute{a}\nu a\tau os$, death': Skt. *a-dhvanīt*, 'dwindled,' from \sqrt{dhwen} , a doublet of $\sqrt{dhw\bar{e}}$ (§ 3, n.5).

 $\sqrt{b\bar{a}}$ -dh is compounded of $\sqrt{bh\bar{e}}i+\sqrt{dh\bar{e}}(i)$ and means 'premere' < 'caedendo premere.' It is formed like $\sqrt{r\bar{a}}$ -dh: Goth. - $r\bar{e}$ -dan Lat. reor. In $b\bar{a}$ -dhi- $t\acute{a}s$ the posterius is IE. - $dhit\acute{o}s$, the true ptc. of $\sqrt{dh\bar{e}i}$ (cf. § 4). A 'root' similarly compounded, namely, Skt. $s\bar{a}dh$ ($s\bar{a}$ - for $s\bar{a}i$, cf. $s\acute{i}$ -na-m, 'property,' with true i: $\sqrt{san/s\bar{a}}$, 'adipisci,' cf. § 3, n. 5), has a weak rootform sidh, 29 ptc. si- $ddh\acute{a}$ -s <*si- $dht\acute{o}$. Hence we may infer *bi-ddhas: $b\bar{a}$ -dh (cf. \sqrt{bhid} - with d as in $kh\bar{a}d$ - 'scindere < 'caedendo scindere') 30 or even a composition form -b(d)dhas. Lat. de-fessus <-bh-ddhos, 'wearied,' will have started as 'down-beaten' (cf. $\kappa\acute{o}\pi os$). Then $\phi\theta\imath\tau\acute{o}s$ (from a composition-form - $bh[\vartheta]$ - $dhit\acute{o}s$) will be intermediate between Skt. $b\bar{a}dhit\acute{a}s$ and Lat. fessus, so that the Greek root $\phi\theta$ may be the ultra-reduced form of the compound root $bh\bar{e}(i)$ - $dh\bar{e}i$.31

43. Skr. $k\check{s}in\bar{a}ti$, 'delet': Av. gen. $x\check{s}yo$, 'tabis; perniciei.'— This verb is derived from $[e]k^1s+\sqrt{s(w)}\bar{e}i$ in OHG. $sw\bar{i}nan$, 'schwinden' (cf. § 42, A. 3; Walde s. v. siat), which may be adequately defined by 'to throw (out), scatter, pour; trickle, seep, flow (off).' Or all the forms may be united under a root

²⁹The alternation $kh\bar{u}d/khid$ (-d from $\sqrt{d\bar{o}}$) is precisely similar; and the penultimate diphthong in $khed\bar{u}'$, 'borer' (pace Wackernagel, Ai. Gr. 1, § 15), is by no means to be separated from the ae of Lat. cae-lum, 'chisel.' The root is a d extension of $(s)k^1(h)\bar{e}i/(s)k(h)\bar{e}i$ (§ 29), and we have $\ni i$ in Lat. caedo as well as in Av. saed; true IE. i in GAv. $sin\bar{u}$, 'scissura,' as in Skt. chitas (§ 5). The specialized sense of 'chews, eats' recurs in Lat. cibi-cida. On 'eats': 'cuts' add to the examples in AJP. 26. 197 Lith. kir 'sti (Lalis), 'comedere' <*krt- $ti: \sqrt{kert}$, 'to cut, eat.'

**Notice the semantic development may consult AJP. 32. 405, n. 2, and Walde, s. v. ferio. It is a pity that the semantic doctrine taught for ferio is completely forgotten by Walde s. vv. caedo, scindo, so little does that scholar correlate his learning. He is just as forgetful in phonetics, for under the same lemmata he denies the alternation Lat. ae: IE. $\bar{a}xi$, though he recognizes this gradation s. vv. caelum, scio, saeta.

³¹In such compound roots, as I shall elsewhere show (AJP. 37. 169), the prius really occurs as the case form of a rootnoun (=infinitive); cf. also § 35, n. 23. The syntax of such roots is the syntax of Eng. does love. Cf., pending a fuller treatment elsewhere, Jackson, Av. Gr. § 724. 4.

kswei, extended by p in Lat. dis-sipo (see Walde s. v., and references in § 2, n. 2). Skt. $k\check{s}i$ -p- $\acute{a}ti$ also means 'annihilates.'

- 44. $\epsilon \rho \epsilon \chi \theta \epsilon \iota$, 'beats, pounds': a dh extension of the root of $i \rho \epsilon \gamma \mu a \tau a$, 'beaten, pounded pease.'—We have a like dh added to the root mreg in OEng. brezden (see Gr. 2. 3. 375). Skt. $r \dot{a} k \dot{s} a s$ (neuter), 'goblin,' is a derivative of $r \dot{a} k \dot{s} a t i$ (: $\dot{a} \lambda \dot{\epsilon} \dot{\epsilon} \epsilon \iota$), 'protects.' For the shift to the bad sense—unless we operate rather with the folklore principle of giving a bad dog a good name to propitiate him—cf. Lat. defensio, 'prosecution, punishment,' piaculum, 'guilt,' sacer, 'sacred, defestable'; Skt. $\dot{a} sura-s$ 'god, demon'; $\delta a \dot{\iota} \mu \omega \nu$ and demon; Av. $da \bar{e} va-$, 'demon'; Germ. $g\ddot{o}tze$, $g\ddot{u}tchen$.
- 45. $\chi\theta\acute{\omega}\nu$ 'earth.'—Phonetics has never proceeded with greater rigor to reach such mistaken results as in the study of the cognates of $\chi\theta\acute{\omega}\nu$. Perhaps the superlimit of colorature was reached by Pedersen, when he connected Ir. $d\acute{u}$, in vague local phrases, with $\chi\theta\acute{\omega}\nu$ (Kelt. Gr. 1. 89). Equal extravagance used to connect Skt. kšú-, food, a plain derivative of \sqrt{ghas} , 'edere,' with $i\chi\theta\acute{\nu}s$, 'fish.' Mention has already been made (§ 15) of the hariolation, adopted by Pedersen and Thurneysen, whereby OIr. tinaid, 'evanescit,' for no other reason in the world than to find further documentation for the t of Gallic artos, has been divorced from the sept of Lat. ta-beo. Instead of complicated phonetic assumptions, simpler assumptions of heteroclisis will account for the members of the $\chi\theta\acute{\omega}\nu$ sept.
- 46. As above for $\check{a}\rho\kappa\tau\sigma$ s (§ 15), so for the sept of $\chi\theta\acute{\omega}\nu$, we must first seek the definition that preceded 'earth,' the meaning before the last. Then we can more rationally attack the phonetic problems. Long ago, I am happy to find, before linguistics became so sophisticated as to scorn derivation, this original sense was—somewhat sentimentally—divined. Thus in the first Petersburg lexicon (s. v., p. 533) $k\check{s}\acute{a}m$, 'earth,' was derived from the root $k\check{s}am$, 'ertragen,' 'in dem die erde als bild der geduld aufgefasst wird.' Uhlenbeck modifies this for the better when he says, 'vielleicht zu $k\check{s}\acute{a}mate$ (die erde wäre als die ''ertragende, duldende'' aufgefasst).'³² If we expand this suggestion by availing ourselves of the current doctrine of root-groups, all doubt as to

²²It should be put more concretely still ('die tragende'), cf. Lat. tellus, 'earth': tollit, 'lifts,' tulit, 'bore.'

the most primitive form of the root $k\check{s}am$, 'tolerare,' must disappear. This root, extant in Sanskrit only, comes from sg^1h -em: $\bigvee seg^1h^{33}$ (in $\check{\epsilon}\chi\epsilon\iota$: Skt. $s\check{a}hate$):: $\bigvee tr$ -em (in Lat. tremit): $\bigvee ter$ (in Skt. $taral\check{a}s$, 'tremulus'; cf. Brugmann, Kvg. p. 297). He who possesses even a hand-lexicon of Sanskrit can convince himself that $\bigvee sah$ also means 'tolerare.' Thus the Sanskrit nominative $k\check{s}\bar{a}$ -s, 'earth' is from $k^1s\bar{o}[m]$ -s, 'ferens, tolerans,' used of the earth as 'bearer' of all things (cf. Skt. $vicva^mbhar\bar{a}$, $dhar\bar{a}$, dharani-s, $dh\acute{a}ritr\bar{\imath}$); and Av. $z\mathring{a}$ is from $[s]g^1h\bar{o}[m]$ -s, the strong form correlated with $\chi a\mu$ -al, Lat. humi: OBulg. $zem\check{\imath}ja$.

47. Alongside of Skt. $k \bar{s} \bar{a} s$ we have $k \bar{s} o$ -nis, (1) 'multitude'; (2) 'earth' (also, from the inclusive dual, 'sky'; but cf. Eng. firmament). The sense of 'vis, multitude' is found in Skt. sáhas and, what seems not to have been observed hitherto, in οχ-λος (<*sog1h-los). Skt. sahás-ram, 'thousand,' is from seg1hes, extended by the suffix of *sog1hlos—a simpler explanation than that offered in TAPA. 44. 126. In view, however, of root-groups like Skt. dram/dru, cf. IE. trem/tru (in Eng. throw, 'shake, brandish'): \sqrt{ter} 'to shake' (§ 46), cognate with \sqrt{ter} , 'to turn, twist, use a drill,' we may derive kšās, kšonis from the root doublets $k \check{s} a m k \check{s} u$ (: $i \sigma \chi \acute{v} s$, ' $\check{o} \chi \lambda o s$,' $i \sigma \chi v - \rho \acute{a}$ [adj. with $\chi \theta \acute{\omega} v$ in Aeschylus='terra firma'], ἐχυρός/ὀχυρός 'validus': Skt. sáhu-ris, violentus).—The relation of Lat. humānus (also containing * \$\bar{u}m\bar{a}nus : Skt. \$\bar{u}mas\$, 'amicus'—by no means from *hoi-manus!) to Skt. kšonís (for m/n- if not from mn by Schmidt's law—cf. Skt. $y\bar{a}na/y\bar{a}ma$, $\pi v \gamma \mu \dot{\eta}$: Lat. pugnus) was pointed out in MLNotes 22. 37 for the wayfaring man, if not for Walde, to see.

48. If $\chi\theta\omega\nu$ also comes from $\sqrt{seg^{1}h}$, 'ferre, tolerare,' it may derive, to push literal equation to the superlimit, from a primate

* $[z]g^1h$ -t-wen-, formed like Skt. kr-t- van^{-34} (accent in disaccord with vocalism). The simpler primate * $[z]g^1h$ -t- will be a weak grade of the formative type of Av. $-h\bar{a}g^{\partial}t$, 'sequens' (in $a\check{s}i\check{s}-hag^{\partial}t$ - 'A $\check{s}i$ - follower,' cf. also $-\beta\rho$ - ω - τ - in $\check{\omega}\mu o\beta\rho\check{\omega}s$): \sqrt{sekw} . Brugmann's explanation of this -t (Gr. 2. 1. 423) is unattractive. We have a like -t-+the - $w\bar{e}(n)s$ - of the perfect ptc. in Skt. $m\bar{t}dhv\bar{a}^ms$ -, primate mig^1h -t- $w\bar{e}(n)s$ -, 'effundens.' For the old explanation, as found in Grassmann, is certainly right. The gods to whom the epithet $m\bar{t}dhv\bar{a}^ms$ - is applied are the sky-lightning-wind-weather-rain-gods, i. e. $\theta\epsilonol$ $\check{\delta}\mu\chi o\tilde{v}\nu\tau\epsilon s$. As for Varuna-, the concept of $\epsilon v\rho s$ is secondary. We must begin with $Ov\rho av s$ as $ov\rho \epsilon \omega v$, 'mingens.' The sense 'broad' is from 'sky,' not the other way about.

49. ${}^{\prime}\text{E}_{\rho\epsilon\chi}\theta\epsilon\dot{\nu}s:\chi\theta\dot{\omega}\nu$ (if with $\chi\theta$ for $\theta\chi$).—The earthgod ${}^{\prime}\text{E}_{\rho\epsilon\chi}\theta\epsilon\dot{\nu}s$, also named Ἐριχθόνιος, was a 'son of Earth.' His name, I surmise, originally meant 'cleaving the earth,' and came from *ἐρετχεύς (or even from $\epsilon_{\theta} [\epsilon \theta] \epsilon \theta$ -χεύς). Here *ere-t-, 'cleaving' ($< \sqrt{er\tilde{e}}$ 'separates'; or *ere-dh in Skt. ardh-á-s, 'half': Lith. ardýti, 'trennen'; cf. $\dot{\epsilon}\rho\dot{\epsilon}\theta\omega$, $\dot{\epsilon}\rho\epsilon\theta\dot{\iota}\zeta\omega$ in Persson, Beitr. 637; 841, note 2), is the prius (cf. 'A $\rho\chi\epsilon\tau$ - in § 17); and *[s] $gh\bar{e}u$ -s 'earth' (:Skt. $k\check{s}o$ -nis) is the posterius. Observe how with its $\bar{e}u *[s]g^{1}h\bar{e}us$ matches the stem of Zevs, 'sky.' In Έριχθόνιος (*< ἐρετ-χονιος) the common prefix ἐρι- has replaced ἐρε- (see also Brugmann-Thumb, § 162 on the interchange of e/i/o in the prius of this type of compounds). Or *erit-, 'scindens,' formed like Skt. sarit-, 'fluens'> flumen, has competed with *eret-. No compelling reason requires us to believe that the governing prius in Indo-Iranian -at-compounds was a present ptc. (§ 17); cf. Av. vikarat--uštāna-, quasi 'dele-vita-.' The ι (for ϵ) of ' $E\rho\iota\chi\theta\acute{o}\nu\iota$ os may also show the influence of 'E\(\lambda\elli'\)- $\chi\theta\(\lambda'\)-<math>\chi\theta\(\lambda'\)-<math>\chi\theta'\(\lambda'\)-<math>\chi\theta'$ - $\chi\theta'$ - $\chi\theta'$ - $\chi\theta'$ - $\chi\theta'$ - $\chi\theta'$ - $\chi\theta'$ - χ' -

*If the root en, 'adipisci,' is rightly restored in § 46, n. 33, above, the original sense of this Poseidon epithet may have been 'adeptus terram,' and $\epsilon i \nu \sigma l - \phi \nu \lambda \lambda \delta s$, of a mountain, would have meant 'habens folia,' not 'quatiens folia.' The latter sense would have come to it from the idea that suggested $\epsilon \lambda \epsilon \lambda l \chi \theta \omega \nu$ (Pindar) and $\sigma \epsilon \iota \sigma l \chi \theta \omega \nu$ (not early), but the original sense would have been the sense of $\gamma a \iota \eta - (\digamma) \delta \chi \delta s$, 'earth-carrier' (:Lat. vehit); the current interpretation of 'earth-shaker' being due to the definition of Goth. ga-wigana by 'concussa,' instead of by 'commota, compressa.'

³⁴This n may be dissimilated from r (cf. fem. $krtvar\overline{\iota}$, § 23). Note also $i\text{-}tvara\dot{\iota}$ -s, ga-tvara-s, looking like tautological compounds with posterius $-tvara\text{-}:\sqrt{tvar}$, 'festinare.' But -tvar-need not exclude -t-var-n.

- 50. $\iota \phi \theta \iota \mu \sigma s$, 'stalwart, constant.'—The root of the prius was $\bar{e}ibh$, 'to bind' (see on the compound root $ksw-\bar{e}ibh/p$ TAPA. 44. 109-110) attested by Skt. ιbha -, 'familia' (also a designation of the number eight). In the sense of 'elephant' ιbha may apply to the use of the trunk in 'enveloping,' and so 'binding.' In $\tau \delta$ $\iota \pi \sigma s$, 'press,' we have a derivative from $\bar{e}ip$, 'vincire' > 'vinciendo premere,' but Hom. $[\sigma]_{\mathcal{F}}\iota \phi \iota a$, only of sheep $(\mu \bar{\eta} \lambda a)$, means 'convincta,' i. e. 'herded.' The prius of $\iota \phi \theta \iota \mu \sigma s$ is the abstract * $\iota bhti$ -, 'press,' and the derivative $\iota \phi \theta \iota \mu \sigma s$ describes one 'fit for the press' (of battle). If $\iota bhti$ meant strictly 'band' $\iota \phi \theta \iota \mu \sigma s$ designated 'one fit for the band' (of soldiers). Wood in CPhil. 5. 304 properly connects Germ. eifer with $\iota \pi \sigma s$, pace Boisacq(!); see fn. 28, below.
- 51. Beginning with § 24 above I have passed in review all the words for which etymologies involving the equation of Skt. kš with $\kappa\tau$, $\chi\theta$, $\phi\theta$ are now advanced. The current equations, I conclude, rarely connect cognate words and, where cognation does obtain, in no single case does τ or θ represent the (k) s of the Sanskrit forms. The Sanskrit sibilant, on the contrary, continues IE. s, while the Greek dental continues the IE. dental of which it is the normal equivalent. If it be answered that my combinations in disproof of IE. b and o sounds also move in the vicious circle (§ 1), that is very true. How could it be otherwise? But my etymologies follow simple and well-known phonetic lines and do not set up a curious class of spirants which leave no trace of their spirantic character, save in complicated combinations like Skt. $k\check{s}$, Av. $(x)\check{s}$, $x\check{s}$, $\gamma\check{z}$ (Latin -x- and -rs-), wherein I have vindicated, and chiefly by the recognition of the IE. preverb $(e)k^{1}s$, IE. $(k^{1})s$.—The preverb $k^{1}s$ is also assumed in Prellwitz lex. s. v. σβέννυμι, and in Walde, s. v. 2 frigo.

INDO-IRANIAN DIRECTION ADJECTIVES

Α. Skr. jihmá not Akin το δοχμός.

- 1. In the previous essay, covering most of the typical cases, I maintained the thesis that IE. ϑ never yielded Indo-Iranian i. With Pedersen in KZ 36, 74 sq. I hold that IE. ϑ had <and never lost> in Indo-Iranian a-timbre. I particularly reject equations of final i in Sanskrit with Greek final a. In neut. $m\acute{a}hi$, great, i is true i, just as surely as it is in $bh\ddot{u}'ri$ -, great, or in Lat. omnis. We also have true i in Skr. neut. pl. $s\acute{a}nti$: $\emph{o}\nu\tau a$, for $s\acute{a}nti$ shows the same correlation of neuter with feminine that has been consummated in the Latin participles; cf. also the identity between Lat. n. pl. praesentia and the fem. abstr. praesentia. It is only in the reduction stages of $\bar{a}^x(i)$ roots, excluding analogy cases, that Skr. i corresponds, but not fully accords, with Greek a. In Lat. praesentia -ia is the sum of the endings i and a. The correlation of fem. \bar{i} with neut. \bar{i} corresponds to the like variation of \bar{a} with \bar{a} .
- 2. Skr. jih-má-, deorsus, obliquus: entirely unrelated with δοχμός. In jihmá- we have a reduplicated derivative of the root $h\bar{a}$. Skr. 2 $h\bar{a}$, discedere (jihite) and Av. $a+z\bar{a}[y]$, accedere, belong with Germ. gehen, and before generalization described some special mode of motion; perhaps, to follow the unintentional cue of the Petersburg lexica, 'to spring' (up before or away from)—not mere approach or departure; cf. $\chi\omega$ - ρ - $\epsilon\tilde{\iota}$, accedit \times discedit, and Lat. venit: βαίνει. 1 skr. 1 hā in jáhāti, relinquit; decedit (de), is the same root. To arrive at the special sense of jihmá- we have but to assume the connotation of 'decedens (i.e. deflectens) de via recta.' Observe how in Lat. ob-līquos, transversus, the root part liqu—or rather likw (cf. Plautine relicuos) is in all respects homonymous with the root of Lat. līquit. Thus obtains the semantic proportion of $jihm\acute{a}$: $\sqrt{h}\ddot{a}$:: obliquos; linquit. The sense of 'downward' (RV) will have come from the application of obliquos to slopes and slants.

'Skr. $\acute{e}ti$ also means $venit \times it$. I also note here, for the sake of a cross reference to TAPA, 44, 115 § 14, that, like the Latin compound adit, Skr. $\acute{e}ti$ also means 'quaerit, precatur.'

²In $jihm\acute{a}-b\ddot{a}ra$ -(and $n\bar{\imath}c\bar{\imath}na-b\ddot{a}ra$ -), $-b\ddot{a}ra$ should be corrected to $-v\ddot{a}ra$, 'lid' or 'cover' (whence mouth, opening, top) of a jar, etc.; the compounds have the sense of 'topsy-turvey, top-down.'

The unrelated synonym δοχμός is from dok¹smos, and has for its nearest of kin δοκάνη, forked pole for a fishnet (cf. Lat. furca). It was originally a substantive (adj. form δόχμιος) and meant 'twig, bough' (cf. πλόκανον: πλοχμός). The sense of 'divergent' (de rectâ deflectens) originated from 'branching.' The root—with some evidence for k as well as for k^1 —was $d\bar{e}(i)k^1/g^1$, prehendere, rapere (diripere, divellere, mordere), capere; cf. Goth. tahjan, zerren; reissen: $\delta \acute{a} \kappa \nu \epsilon \iota$, bites; and, with g^1 , Goth. $t\bar{e}kan$, to touch: ONorse taka, to take. Note δέκεται (without i), accipit: diphthongal δείκνυται, accipit (entertains). Both these exhibit mere shadings of the original sense. Particularly observe the isolated and archaic Skr. $d\bar{a}'ca$ -s, piscicapus, an old word of the chase. Other derivatives of the root designate parts of the body that seize, take, bite; as $\delta_{0\chi\mu\eta}$ ($< dok^1 sm\bar{a}$), palmus³ (=4 digits; cf. Eng. hand for hand's breadth): the sept of Lat. dextra, the "right" hand being the 'taker, par excellence; 'finger' in δάκτυλος and Lat. digitus (IE. ig1), and 'twig'4 in Dutch tak (: Eng. tack); 'tooth' (cf. Eng. fang from 'seizer') in Swed. tagg, prickle, point, tooth (ultimately akin to Av. dastra-, Skr. dámstra-,5 tusk).

*The sole reason for ever doubting the cognation of Germanic hand with hinhan, to seize, was the intrinsic propriety of the definition (see my remarks in The Nation, April, 1911). This semantic correlation has been established by a large documentation in Wörter und Sachen 2, 200. See also Meillet in MSL. 17. 62. Words meaning 'palm' need not be separated. From Folk Latin brança, paw (later, branch) comes Raeto-Romanic braunca, palma; gen. $\delta \rho a \kappa - \delta s$, which meant 'seizer,' is given by Hesychius in the sense of 'palma.' Manus rapit capitve; palma accipit (but, etymologically, palma pellit). Berneker has gone sadly astray (Wbch. p. 690) when he refuses to connect the sept of Slavic lapa, paw, with the sept of the verb lapati, rapere. Pedibus manibusve animalia rapiunt.

⁴The variation finger: twig is found in Skr. $g\bar{u}'kh\bar{u}$ and in vip: of palm and twig in Lat. palma, cf. palmes; while in Greek the hand is described as five-twigged in $\pi \dot{\epsilon} \nu \tau - o \dot{\zeta} o s$ (Hesiod), and in $\pi \dot{\epsilon} \nu \tau \dot{a} - \kappa \lambda \alpha \delta o s$ (Etym. Mag.).

*One may suspect the nasal infix to have come from the sept of Lat. dens, the influence by which Bartholomae also accounts for Av. s instead of š. So $\delta - \delta \alpha \xi$ has got its initial from $\delta \delta o \psi s$. The loss of oin the other members of the dens sept may be due to association with the $d \acute{a} m s t r a$ - group.

- 4. By denominative reaction from cognates meaning 'finger' etc. the sense of 'points, shows,' in $\delta\epsilon i\kappa\nu\sigma a$: $d\bar{\imath}cit$, was reached. From the common use of teeth as ornaments in prehistoric times we may explain Skr. $da\varsigma\bar{a}$, fringe: Lat. decus ornament; $medecet^{\tau}$ 'it ornaments me,' or 'it shows me off.' Skr. $dak\check{s}a$, habilis, is generalized, cf. habilis: habeo, and capax, capable; note Eng. a hand for—aptus, capax, habilis. Skr. $d\bar{a}\varsigma n\acute{o}ti$ (deo alicui re sacra; cf. for like constructions in Latin Class. Phil. 5, 368), does homage (to a god with sacrifice), has been generalized from 'takes (implicit object, a taking) to a god by means of sacrifice.' In $d\bar{\imath}k\check{s}ate$, sese dedicat; dedicatur, (cf. the Latin sacral formula do dico dedico), precious for its evidence of $\tilde{\imath}$ (: $\bar{e}i$), the implicit object is a person.
- 5. Returning to δοχμός, originally 'twig, branch,' but adjectivized's (as Eng. branch is virtually adjectivized in branch road, etc.), we may note that it is cognate with δοκός, crossbar of a door—cf. Germ. spriesse sprosse, rung (of a ladder), crossbar, but originally 'shoot, twig'—and with δοκίδες, rods or twigs laid over a pitfall to support a 'thatch'' (Xenophon). I take the Homeric δοκοί to have been rafters. The sense of 'oblique's may have come from 'rafterlike' as well as from 'branching.'

*Similarly Alb. $\theta ek\epsilon$, fringe: Skr. $g\bar{a}kh\bar{a}$, twig; also recall Eng. sprig and spray, ornamental patterns.

⁷As regards Lat. *docet*, shows; teaches, it is not to be separated from Av. dax- \dot{s} - $a\dot{t}$. docebat, even though $x\dot{s}$ requires us to admit a guttural k alongside of the palatal k^1 of the root; or a oristic $dax\dot{s}a\dot{t}$ has $x\dot{s}$ from k^1s -s (§ 36, above).

The derivative δόχμιος was an adjective to start with.

It is interesting to trace in The Oxford Dictionary the history of the word splay, oblique, which was adjectivized for the first time in literature by Matthew Arnold. 'Splay' has clearly come from display, and so offers, by mere accident, a curious parallel with the correlation of $\delta o \chi \mu \delta s$ and $\delta \epsilon i \kappa \nu \nu \sigma i$. Words like splay bevel bias show from what numerous sources the sense of 'oblique' may derive.

- B. SKR. i \bar{u} Not Contractions of $i+\theta$ and $u+\theta$.
- a. Indo-Iranian¹o direction adjectives in -añc (Sanskrit).
- 6. (1) The strong forms, like Skr. $n\acute{i}$ - $a\~{n}c$ (written $ny\~{a}\~{n}c$ -), downwards, are undoubted compounds, with posterius $a\~{n}c$, bending, attached to the ordinary direction adverbs. These formations are entirely analogous with the type of Lat. adversus, nor is there any limit on the possibility of such combinations.
- 7. (2) "Middle" forms in $\bar{a}c$ are to be forthright admitted (but see § 8) for posteriora in -ac, e. g. $\hat{a}p\bar{a}c$ -, back-bending, prius $\hat{a}pa$.
- 8. (3) For alleged instrumentals, type of Av. paiti-ča, contrary, and fra-ča, prorsus, a "weakest" stem in c (k) only is taught, but quite erroneously. In frača we have pro+the word 'and' (Av. -ča, Lat. -que). The type originated in pairs such as Skr. āca párāca—Av. āča parača, to and fro; cf. Lat. susque deque, up and down. Such phrases were adjectivized as in Skr. $ucc\check{a}-n\bar{\imath}ca-s$ and $ucc\hat{a}-vac\acute{a}-s$ (\hat{a} from $\tilde{a}+\check{a}$), up and down. Lat. reciprocus is the entirely normal development (ci from co from que) of reque proque, back and forth. Of these groups the separate members were also adjectivized, and this process may have been promoted by the abstraction of stems from compounds such as uccā'-budhna-, bottom-up, nīcā-vayas-, strength-down (exhausted). Note an outwardly like adherescent -que in the different type of Lat. sesqui-pedalis [one]-and-a-half-feet. In Indo-Iranian, as the ka suffix shows, the -que adverbs had been adjectivized and yielded a suffix ka prior to the operation of the

In the cognate tongues the only parallels in any wise plausible are Lat. pro-pinquos and its opposite by irradiation longinquos. But pro-pinquos=prae manu (see AJPh. 31. 4184). IE penk-wos, hand (and five), belongs to the root penk/g, to grasp, see above, § 3, fn.); cf. penkstis, fist, in OBulg. pe-sti: Germ. faust, from pnkstis. Lat. pugnus (root in pungit) is a parallel formation. The root penk occurs also in finger, from penkro-, and the u of pugnus has intruded in Av. pux-δa-, quinctus. IE. penk-wos, hand, will have meant 'grasper'; but pugnus, 'striker,' cf. $\pi v\xi$, adverb from nominative, striking; with the fist. If Lat. prope is not a back formation from propinquos, it may be a back formation from the dissimilated comparative prop[r]ior, neut. prop[r]ius: $\pi pomap$, before, in front of; or pomap is an aphetic form to Skr. api; cf. enclitic pi 'ad,' in Lithuanian (so Brugmann ap. Walde).

palatal law, cf. Av. abl, $usk\bar{a}t$: $us\check{c}a$, supra. Av. $us\check{c}a$ has a prius up-s, and so has Lat. $us‐que^{11}$ (ad), on up (to). Beside Skr. $\acute{a}p\bar{a}\eta$, off-turning, we have an entirely different $\acute{a}p\^{a}-ka$ -, procul adveniens, 12 wherein ka is from k^wo , 13 and $ap\^{a}$ has $\^{a}$ with the final lengthening described by Wackernagel, ai. Gram. i § 264 sq. Still other adverbial combinations in -kam (see § 11 fn.) may also have entered into the development of the flexion type of $\acute{a}p\^{a}-ka$ -. Avestan combinations of note with $-\check{c}a-\check{c}a$ are $dru\check{c}a$ $paurvan\check{c}a$ (paurvan- acc. sg. fem.), sidewise and forward; $aor\~a\~c\~a$ $par\~a\~c\~a$ $taras\~c\~a$, deorsusque porroque obliqueque. Note $da\~sin\~a\~c\~a$, dextrâque, as silently corrected by Bartholomae in his lexicon after the erroneous explanation in Gr. Iran. Phil. i, § 389 as instrumental to an $a\~n\~c$ compound.

9. (4) It is further contended—but the phenomenon has no genuine attest in Avestan—that in the weak stems $prat\bar{\imath}c$: $praty-\acute{a}\bar{\imath}c$ - and $an\bar{\imath}c$: $anv\acute{a}\bar{\imath}c$ - $\bar{\imath}$ and $\bar{\imath}$ have come by contraction from $i+\vartheta$ and $u+\vartheta$. ¹⁴ To justify ϑ recourse must needs be had to a fresh, and altogether dissimilar posterius ϑk^w , eye, cognate with Lat. $oculus^{15}$ etc., and the theory has to be built up that

"In considering separates like absque usque (not to be identified with the indefinite usque in usque quaque), I have thought of their starting as [us(que)] usque, [on] and on. Note again the ellipsis of "one" with sesqui-, and recall that in Sanskrit and Avestan, in a couple like Aca Bca, either -ca may be suppressed.

¹²If we rigorously construe *adveniens* in the definition, ka may be cognate with $-c\bar{\imath}$ (see § 19); and with $-k\bar{a}$ in $pairi-k\bar{a}$ (§ 20).

¹³To say what I think, I would write this primate as k(w)-e, an instrumental (see AJPh. 38, 87), an enclitic and hurry form to the Sanskrit interrogative $k\acute{u}a$, ubi. Latin $qu\^{a}$ — $qu\^{a}$ reveals how the sense et—et may have originated. As regards the interrogative stem ku see Joh. Schmidt in KZ. 32, 394 sq. In $\ddot{o}\pi v\iota$ and the Umbrian pu forms I interpret p- as due to levelling between ku and kwo (k^{wo}) forms.

¹⁴In Grundriss 2, 1 \S 248 Brugmann has silently corrected the erroneous explanation of Skr. $tr\bar{\imath}$, tria, as from $tr\check{\imath}+3$.

¹⁵The whole pother about $\pi\pi$ in $\delta\pi\pi\alpha\tau a$ is due to the failure to recall the hypocoristic use of words for the eye in Greek; cf. Lat. occile, darling. Is it an earlier hypocoristic kkw (instead of kwkw; cf. Ital. acqua?) that is preserved in $\delta\kappa\kappa\sigma\nu$ $\delta\phi\theta\alpha\lambda\mu\delta\nu$ and in Boeot. $\delta\kappa\tau\alpha\lambda\lambda$ os (: Lat. occilus?)? The k^1 of Av. $a\check{s}i$, duo oculi, is due to proethnic alliteration with a cognate of $\delta\xi\dot{v}s$; cf. $\delta\xi\dot{v}\tau\alpha\tau\sigma\nu$ $\delta\mu\mu\alpha$ and $\delta\psi\dot{v}s$ $\delta\xi\nu\tau\dot{\alpha}\tau\eta$ (both in Pindar); Lat. oculi acres and acris acies oculorum (Thes. LL. i, 359, 50 sq.). Or Av. $a\check{s}i$ owes its \check{s} to a prehistoric association with the sept of Lat. acies; or with the sept of Albanian $si/s\ddot{u}$.

oculus belongs to an $\bar{o}/\check{o}/\partial$ root. This is erroneous and we shall later see evidence that ek^w is an e/o root (§ 14).

- 11. It is more than likely, however, that $anv\tilde{a}nc$ is to be analyzed as anu- $v\tilde{a}nc$ -. See for the graphic and phonetic problem Wackernagel, l. c. § 53, β . The posterius -vanc- is beyond all doubt in Skr. $vi\tilde{s}$ -vanc-19 Av. $v\tilde{\imath}\tilde{z}$ -vank-, passim. The posterius -vanc- is not merely a synonym of -anc-, but it is -anc-, of com-

16 Did Av. ny-āka- mean the bent down one, senex?

¹⁷On oxytone accent of adverbs see Brugmann, Kvg. § 366, 7.

¹⁸In 2, 14, 4, yó áva nīcā' babadhé might be restored—accent secondary and apart—as qui abs [que] deque pressit. So in 2, 13, 12 nīcā' sántam úd anayas may be conceived, with archaizing chronology, as infraque iacentem supra sustulisti. In 10, 34, 9 nīcā' vartanta upári sphuranti (downward they roll, up they leap), upári[ca] is thinkable (§ 8, fn.).

19The alleged prius $vi\check{s}u$ is—or began as—a grammatical fiction. In RV. 1, 84, 10 $vi\check{s}\check{u}v\acute{a}nt$ - designates diffused Soma; in 1, 164, 13 it is employed of smoke rising upward with diffusion (expansion), so that $-s\check{u}v\acute{a}nt$ - makes a very good participle to $s\check{u}$, premere (or to $s\check{u}$, agere, $s\check{u}t\acute{a}$ -, driver). In AV. 9, 3, 8 $vi\check{-}\check{s}uv\acute{a}nt$ - is a division line, a middler, pressing or driving apart the halves. Later, this term, like $vi\check{-}\check{s}uva$ -, designated the equinox, the time when day and night begin to press or drive apart. In still other RV compounds $vi\check{s}u$ - may be from vi+su, as in su-vvt-, well-rolling, $vi\check{-}\check{s}uvvt$ -, well rolling off (both of a chariot); cf. $su\text{-}r\check{u}pa$, of good color, $vi\check{s}ur\check{u}pa$ -, of divers (good) colors. Even $vi\check{-}\check{s}una$ -, varius, may be derived from vi, dis-,+a participle -suna-actus, pressus.

²⁰What unlimited funds we grammarians have in the Indo-European and other prehistoric banks. Confronted with *viž-v-* (cf. *duž-vacaηho*, evil-speaking) Bartholomae writes his cheque for a prius *uiγz'hu-!*

²¹A derivative of the root ane does designate a bent part of the body in Skr. ni-aneani, lap; but vane is rich in such derivatives: váηkri-, rib; vakšánā (-sanā as a suffix is akin to the infinitive ending -sani),

pounded with the preverb su-, co- (see TAPA. 44, 107 sq. and § 2 fn., above). The prius is vi, apart (cf. Skr. $v\bar{\imath}$ - $k\tilde{a}$ ça-; Gāth. Av. $v\bar{\imath}$), expanded by -s (cf. ud-s above), and is of record as $vi\check{s}$ - in Avestan; cf. also Skr. $\bar{a}'vis$ her-aus, $\dot{a}v$ - $\omega\iota[\sigma]\sigma\tau ov$, inapertum (see AJP. 33. 391).

- 12. Summary. For the Indo-Iranian direction adjectives in $-a\tilde{n}c$, bending, we have admitted the grade in $-a\tilde{n}c$ and (for the argument's sake) a weak grade in $-\check{a}c$ -. The weakest grade in c has been denied, and the adverbial forms in question (Av. $fra-\check{c}a$; cf. Skr. $n\hat{i}-c\hat{a}$) have been explained as direction adverbs expanded by adherescent kwe (k^we), and; whence, eventually, upon adjectivization, the suffix k(w)o-. The alleged forms in $\bar{i}c$ and $\bar{u}c$ have lengthened \hat{i} and \hat{u} , while their c belongs not to IE. ∂k^w , eye, but to k(w)e (see, however, §§ 20, 25).
- 13. It now remains to examine the words in which, thanks to erroneous and premature definition, the posterius $\partial k^{\mathbf{w}}$, eye, has been chiefly recognized.
- 14. $\acute{a}n\bar{\imath}ka$, "antlitz, front, eigentlich zugewandt." Leumann goes on to compare $\acute{\epsilon}\nu\omega\pi\nu$, stirne, gesicht; OIr. ainech: Welsh enep, facies. But $\acute{\epsilon}\nu\omega\pi\nu$ is a fiction, and Hom. $\acute{\epsilon}\nu\omega\pi\tilde{p}$, palam, is still transparently $\acute{\epsilon}\nu+\dot{\omega}\pi\tilde{p}$," in oculo. Celtic $enek^wo$ (see Fick-Stokes, p. 48) simply means 'in-spiciens,' in the sense of 'species'; and exhibits the root of fut. $\acute{\nu}\psi\epsilon\tau\alpha\iota$, but with e-vocalism."

belly; $va_{\eta}k\check{s}ana$, flank; $v\check{a}k\check{s}as$, breast; cf. also with uc:vak (root in Lat. vacillo), $an\check{u}k\acute{a}$ - and $an\check{u}k\acute{a}a$ -, backbone (named from its curves): $an\check{u}cy\acute{a}$ -, arm (of a chair). The last group is not related, either in sense or morphology, to $\hat{a}n\hat{u}$ - $k\acute{a}m$, successim, compounded of anu (with a and a) and the preposition -kam—Lat. cum, the whole—along with. It is not improbable that such adverbial forms in -kam entered into the creation of the suffix of the apa-ka-type, see § 8.

 22 τὰ ἐνώπια is entirely apart. The word designates first a lobby or anteroom of a house, or even a tent, used as an armoire (place for arms); and second an annex to a stable wherein, after stalling their horses, men tilted up their chariots. Nearest of kin to $-(s)\omega\pi$ - (unless, in the sense of armarium, we compare τὰ ὅπλα, arms) is Lat. (prae-) $s\bar{e}pe$, fold, shed room for cattle.

²³For this sept e-vocalism is further certified by Lith. eketë, waterhole in the ice: $\tilde{a}kas$, same sense; cf. $\delta\pi$ -ή, smoke-hole. Bezzenberger's comparison (BB, 27, 174) with $[f]\delta\chi\epsilon\tau\delta$, conduit (properly explained in Boisacq, lex. s. v.) is most improbable. The doublet $aket\tilde{e}$ (cf. phenomena like $\epsilon\chi\nu\rho\delta$ s: $\delta\chi\nu\rho\delta$ s $\epsilon\chi\epsilon\sigma$ - $\phi\iota\nu$: $\delta\chi$ os, modes-tus: modus-) reflects the vocalism of $\tilde{a}kas$.

- Cf. also the compound root s(w)- ek^w , con-spicere, in Goth. s[w]aihwan, 24 to see. OIr. ainech owes its a to intrusion of IE. $\bar{a}no$ -, face (in Skr. $\bar{a}n\acute{a}$ - $\bar{a}nana$ -). Surely, neither $^e\nu\omega\pi\nu\nu$ nor Celtic $enek^wo$ gives any countenance to the derivation of Skr. $\acute{a}n\bar{i}ka$ from $eni+\partial k^wo$ -.
- 15. Nor does ánīka- genuinely mean 'face,' but actually and specifically 'splendor, sheen'; and so every RV occurrence may be rendered, even 8, 20, 12, where "glory is in your splendors" (rather than "on your faces") does well enough. The same is true for Av. ainīka-. Bartholomae's first instance, e. g., is a. brāzaiti, splendor fulget. Not but that 'appearance, face' may be, and even in Indo-Iranian probably was, derived from "splendor." For the semantics see Walde, s. v. Lat. facies, and that whether facies is actually cognate with fax or not.
- 16. For the true definition of $\acute{ani}ka$ we must start from the sense of 'acies' (exercitus), common to Sanskrit and Avestan. We further have in RV sam- $anik\acute{a}$ -, proclium; $samik\acute{a}$ -, proclium; and abhi'ka-, collision. In all these the posterius is -ika-, cognate with Lat. icit, strikes. For the derived sense of splendor cf. Lat. ictus, used of the sun's rays and the lightning's flash; also Ennius's radiis icta lux (i. e. luna), irradiated moon. Vedic $pr\acute{a}tika$ also characteristically means 'splendor' (of Agni and other light manifestations), and is to be explained like $\acute{a}nika$ -.
- 17. The Avesta, as it has nothing to match the $\hat{\imath}$ of the $n\hat{\imath}c\hat{a}$ type (§ 8), has nothing either to match $\bar{\imath}$ in $\hat{a}n\bar{\imath}ka$ and $prat\bar{\imath}ka$ -. In Av. ain-ika- the posterius was -iko- (: Lat. $\bar{\imath}cit$), but Av. paiti- $\check{c}a$, diverse, varie, is paiti+ $\check{c}a$, as in $fra\check{c}a$ (§8); adjectivized in paitika-, if that means 'contrarius' (''strittig,'' Bartholomae). More like $pr\acute{a}t\bar{\imath}ka$ -, on the face of things, is Lat. $ant\bar{\imath}quos \times post\bar{\imath}cus$ (quo/co only by paradigm levelling, unless

²⁴But in προ-σώπατα (Epic plural=prae-spicientia) σ- is from sw-; cf. Goth. siuns, face.

 25 In two of the three RV passages in which Grassmann defines loc. $\acute{a}n\bar{\imath}ke$ by 'vor,' $\acute{a}n\bar{\imath}ke$ apā'm (4, 58, 11) is best taken as (in) impetu aquarum; $\acute{a}n\bar{\imath}ke$ $v\bar{u}y\acute{o}s$ (8, 91, 13) as (in) flatu venti; in the riddlesome third instance (9, 97, 22), $\acute{a}n\bar{\imath}ke$ $k\check{s}\acute{o}s$ may mean ad splendorem cibi (=ad splendidum cibum), of the bright Soma drop (Indu), conceived as a food.

the p of posticus promoted delabialization of qu). But Latin -quo- is here from que (§ 8). The $\hat{\imath}$ of ant $\bar{\imath}$ quos is either like the $\hat{\imath}$ of $n\hat{\imath}c\hat{a}$, or ant $\bar{\imath}$ - is a case form of an IE noun anti-s: Lat. nom. pl. antes, rows. [These were the end rows, as native definitions show.] The quantity difference between ant $\bar{\imath}$ quos and the Sanskrit locative ant $\bar{\imath}k\acute{e}$, prope, may be proethnic, however, showing $\hat{\imath}$ before consonants and $\bar{\imath}$ before vowels, with levellings. In this shift of quantity we have the explanation for the Sanskrit longs mentioned above (§ 8) as due to "diastole." Graphically the Vedas here used shorts, but conversely Homer has in hiatus like longs that must be read as shorts.

18. Like effects but different causes. In the paradigm of $n\tilde{\imath}$ - $a\tilde{n}c$ - (or $n\acute{\imath}ya\tilde{n}c$ -, with iy from $\tilde{\imath}$ before a vowel?), downbending, I have derived the feminine, $n\tilde{\imath}'$ - $c\tilde{\imath}$, from $n\tilde{\imath}ca$ -, adjectivized from $n\hat{\imath}+k(w)e$ (§ 8). But fem. $prat\hat{\imath}c\tilde{\imath}$ (once paroxytone, $prat\tilde{\imath}c\tilde{\imath}m$) may be also derived, like $pr\acute{a}t\acute{\imath}ka$ -, from $prat\acute{\imath}+\tilde{\imath}ko$ -, striking against, colliding. Beside sam- $\tilde{\imath}k\acute{a}$ -, collision; battle, the feminine nom. ag. was sam- $\tilde{\imath}c\tilde{\imath}$, as in acc. pl. sam- $\tilde{\imath}c\tilde{\imath}'s$ (vrtas), collidentia (agmina). The masculine stem $sam < y > \acute{a}\tilde{n}c$ - owes its < y > to a proportional analogy such as $prat\tilde{\imath}c\tilde{\imath}': sam\tilde{\imath}c\tilde{\imath}': sam\tilde{\imath}c\tilde{\imath}': sraty-\acute{a}\tilde{n}c: sam < y > \acute{a}\tilde{n}c$ -. Cf. astam- $\tilde{\imath}k\acute{e}$, domum-prope (domi), where $-\tilde{\imath}ka$ - suggests Fr. $pr\grave{e}s$.

19. Nor is this the only possibility, for $n\bar{\imath}'$ - $c\bar{\imath}$ may contain a posterius $-c\bar{\imath}$, moving (: Lat. cio, $\kappa \iota \omega$ $\kappa \iota \nu \dot{\epsilon} \omega$; see § 20). In pi $nt\bar{\imath}$ - $c\bar{\imath}na$ - (oxytone and paroxytone) $-c\bar{\imath}na$ - will certainly mean 'moving.'' Also in Av. fra- $\bar{\imath}a$ -, which described created man as ''mobilis'' (not merely ''tauglich,'' as Bartholomae has it), we have a posterius -kyo-: and the adverb fra- $\bar{\imath}a$, with verbs of motion, will have meant quasi ''prae-moventer.'' The centix kyo is also exhibited in $\pi \epsilon \rho \iota$ - $\sigma \sigma \acute{o}i$ s, going beyond, exceeding; in $\tilde{\imath}\pi \iota$ - $\sigma \sigma a \iota$, going after, following, younger; in $\mu \acute{\epsilon} \tau a$ - $\sigma \sigma a i$, going (not lying) in the middle. On $\pi \epsilon \rho \iota \sigma \sigma \acute{o}s$ further see § 25.

²⁶Some plausibility does attach to Brugmann's derivation of νεο-σσοί, chicks, from "new-lying." But "new-goers," of fledgeling birds, is no less likely. If birdlings alone were meant, νεο-σσοί might mean "new-callers" (: Lat. cio and Goth. hai-t-an). From the root of κίω we have Av. či-θra-, origo; herk unft (for which Bartholomae's rendering of "seed" is a mere personal and stylistic shading); proles, and the sense 'proles' suggests νεοσσοί. It is also not unlikely that νεοσσοί contains a

- 20. Av. pairi- $k\bar{a}$, witch (from circum-iens, or quasi circum-lega). The root of Skr. $cin\acute{o}ti$, gathers (note $\bar{\imath}$ in $c\bar{\imath}ti$ -, gathering, AV) is found in Slavie with the sense of 'to do magic' (cf. Berneke, Wbch. s. v. $\check{c}in^u$, p. 176). The root had a long diphthong and may be written $k^w\bar{e}i$ or $k(w)\bar{e}i$. It appears as a denominative in $\pi o\iota$ - $\epsilon \bar{\iota}$, does; makes (see Boisacq). With $cin\acute{o}ti$, gathers, as Whitney has observed in his Roots, etc., $cin\acute{o}ti$, notes; observes, is identical. Eng. gathers and Lat. colligit also develop the sense of deduces (infers, considers). From the primary meaning of gathers there were a good many other developments, as:
- A. culls (for excellence or inferiority); chooses, punishes (in τl - $\nu \nu \mu \alpha \iota$), esteems ($\tau \iota \omega$); cf. $\tau \iota$ - $\mu \dot{\eta}$ honor; in the bad sense, penalty (<gathering, assessment).
 - B. gathers, brings together by driving, drives (in Lat. cieo).
- $C(B^1)$. gathers together; intrans. assembles, convenit; cf. Δ 281, έs πόλεμον ... κίνυντο φάλαγγες—in bellum conveniebant (congregabantur).
- $D(B^2)$. drives; intrans. drives along, speeds, as in Lat. *citus*. Lat. *lego* is also a verb of motion; see the lexica; especially cf. Lat. *carpit iter*.

If not written $k(w)\bar{e}i$, but $k^w\bar{e}i$, thanks to the "law of socius," delabialization was due, in all the labializing (centum) tongues, whenever the root was reduced to ky as, e. g., in the secondary rootform $ky-\bar{e}-$ (: $k^w\bar{e}i::\check{\epsilon}\kappa-\phi\rho\eta-\tau a::\check{\epsilon}\kappa-\phi\dot{\epsilon}\rho\epsilon\tau a::$ Lat. $cr-\bar{e}-vi:cer-no$). Cf. also the u- determinative in Skr. $cy-\acute{a}v$ -ate, rhyming with Lat. movet. By levelling $k^w\check{\imath}$ and ky forms yielded the root stage of Lat. cio, $\kappa i'\omega$, $\kappa u \star \acute{\epsilon}\omega$. The root $k\bar{e}i/k_{\partial}i$ is clear also in Lat. $bu-c\bar{e}[i]tum/c\bar{\imath}tum$, cattle-run: $keit\bar{\imath}$ in Eng. heath, Germ. heide.

21. Another case of like effect but different cause is presented by Skr. a- $p\bar{\imath}$ - $ci\acute{a}$ -, obscurus. It belongs with Lat. o- $p\bar{a}$ -cus (see JAOS, 34, 336 2), but the primate of both will have had o-, dar. The root was $p\bar{o}(i)$ (see also § 28).

posterius $g^ihyo: g^ih\bar{e}i / g^ihai$ in Germ. gehen (: Skr. $jih\bar{i}te$, § 2); cf. de ovo exire (Pliny), to hatch. From the same root we actually do have- $\chi\mu\sigma$, compounding form of $g^iham\sigma$, in $re\sigma$ - $\chi\mu\sigma$, of a newcomer, cf. advena, incomer (: $\beta\alpha ir\epsilon\iota$, goes); and not of one "novus in terra." As for the sense of "inauditus," uncompounded Lat. novus has also developed it.

- 22. Latin combinations of the direction adverbs with -versus, turning; Indo-Iranian combinations with -a $\tilde{n}c$ -, bending, and with - $c\tilde{\iota}$ - $c\tilde{\iota}$ na-, moving; Greek combinations with - $\sigma\sigma$ (from kyo), moving—these are not all. In the Avesta we have one contrast pair exhibiting in the posterius a root noun cognate with Skr. syand, to flow; speed, viz. us-(s) $ya\check{s}$, supra (nom. adverb), and ni- $sya\check{s}$, \tilde{s} infra, both found duly combined with verbs of motion. In this pair us- is from uds (§ 8); cf. with s not \tilde{s} an-u[t]sa-vant in Bartholomae's lexicon. This s was taken over by $nisya\check{s}$, dissimilated from ni- $\tilde{s}ya\check{s}$ or shifted, to match the $apa\check{s}$ type, from $ni\tilde{s}yas$.
- 23. In Av. ni- $x\check{s}ata$ -, deorsus, I would see ni compounded with $k^1\partial ta$, lying (cf. on $\kappa a\tau \acute{a}$, Ch. I. § 2, fn. 1.; on a from ∂ § 1). In Iranian this combination yielded *nisata- whence, by blending with $nik\bar{a}t$ (: Skt. $n\bar{\imath}c\hat{a}$, see § 8), ni- $x\check{s}ata$ -. With *ni-sata- cf. my long standing analyses of $\check{\epsilon}\sigma\chi a\tau os$ as 'outlying,' and of $\tau \grave{a}$ $\check{\epsilon}\gamma\kappa a\tau a$ as 'inlying' (TAPA, 41, 50).
- 24. Lat. pro-cul shows still another posterius, viz. k^wol : Skr. $c\'{a}rati$, moves along. In its makeup procul is strongly suggestive of $\'{a}\gamma\chi\'{l}$ - μ o λ o ν , prope-iens> prope.
- 25. Greek $\pi\epsilon\rho\iota\xi$ is also explicable as a nominative adverb, with a suffix k, cognate with kyo in $\pi\epsilon\rho\iota$ - $\sigma\sigma\acute{c}\acute{c}$ (: $\pi\epsilon\rho\iota$ - $\sigma\sigma\acute{c}\acute{c}\acute{\omega}$, wherein $\sigma\sigma\acute{c}\acute{\omega}$ belongs with Skr. $cy\acute{a}vate$ (see § 20). To the root noun $k\bar{a}^x(i)$ weak cases in k- were due and a secondary nominative in -ks. So from $k^1\bar{e}(i)$, quasi cubitus, in Skr. ni-c, night (quasi decubitus; cf. ni-c, somnus), we get the weak stem c in loc. c-c-c, noetu.
 - b. Further alleged cases of \bar{u} from $u+\bar{\sigma},\bar{i}$ from $i+\bar{\sigma}$.
- 26. Skr. $\bar{u} < u + \vartheta$ and $\bar{\imath} < i + \vartheta$ have also been recognized in $an\bar{u}p\acute{a}$ and $prat\bar{\imath}p\acute{a}$ -, 'gainst current, with posterius ϑpo -: Skr. $\bar{a}'p$ -as, aquae. Skr. $\bar{\imath}pa$ -, current $(:\bar{a}'pas)$, does indeed have to be admitted for $dv\bar{\imath}p\acute{a}$ -, island, i. e., having two currents $(\hat{\imath} < \check{\imath} + \bar{\imath})$; cf. Av. dv[y]- $a\bar{e}pa$ $(a\bar{e}$ from $\vartheta i)$. The root was $\bar{e}(i)p$, premere, in $\bar{\imath}\pi os$, press: Germ. $eifer.^{28}$ In MS, the Veda

²¹Final $q\check{s}$, instead of qs, is due to infection of *us(s)yas by $apq\check{s}$, with $q\check{s}$ from anks.

²⁸This excellent etymology of Wood's is rejected by Boisacq in favor of a capricious combination of $l\pi os$ with Lat. vix, properly rejected in its

to which we owe the precious archaism of $stighn\acute{o}ti$ $(:\sigma\tau \acute{e}l\chi\acute{e}l)$, we have $anv-\bar{\imath}p\acute{a}m$, along stream: Av. $ny-\bar{a}p^{\ni}m$, down stream. For $\ddot{\imath}$ in Av. $paiti-pa,^{29}$ if it really meant 'contrarius,' I suppose that at some early time, the analogy of the $ant \ddot{\imath}ka$ -: $ant \ddot{\imath}quos$ type (see § 17) made itself felt. The sense of 'press' for $-\bar{\imath}pa$ - remains evident in loc. $sam \ddot{\imath}pe$, prope, from *sam- $\ddot{\imath}pa$ -, copress, i. e. entourage, comitatus; those that press (crowd) about. Cf. $astam-\bar{\imath}k\acute{e}$ in § 18.

- 27. It is not easy to define $an\bar{u}p\acute{a}$ in its RV. usage, though we can resolve all the adjectival senses given in PW.² into 'holding, containing' (water); as a substantive=(a) swamp; (b) water-basin; (c) bank. I resolve into $anu+upa:\sqrt{vap}$, to dam up.³⁰ Thus $-up\acute{a}$ was a dam, $an\bar{u}p\acute{a}$ a dam running along, and it belongs with Skr. $v\bar{a}p\bar{\imath}$, longish tank, Slavic vapa, swamp (in Serbian, a certain river); cf. Lith. $up\acute{e}$, river.
- 28. RV. abhīpatás (ablv.), in a phrase descriptive of a rain storm, has been defined by "at the right time, temperi"; and then derived from *abhīpa-, inferred, with no great semantic probability (? quasi oppressio) from sam-īpa- (quasi compressio, entourage, § 26). The older definition, "from the cloud," has the advantage of being more explicit. I derive from abhî (î in the sequence v v v v) +a participle pnt-, compounding form of

turn by Walde. But Hom. $i\psi\epsilon\tau\alpha\iota$ and $i\psi\alpha o$ leave no ground for supposing f. As for Lat. vix, it is an original nominative of a rootnoun of the type of $\pi i \xi$, striking (whence, with the fist, § 5 fn.) and vix meant 'struggling, with a struggle,' and is to be connected with Germ. weigand, bellator; weigern, recusare.

which see Bartholomae, Gr. Ir. Phil. § 293, 1; 294. In its only occurrence the adjective paitipa (with $dva\bar{e}pa$ -) describes an island in-the-wash of the sea. We might accordingly divide as paiti+-pa-, and define -pa- in the light of $\alpha\mu$ - τ σ - τ 0s, ebb (of the sea). In Sanskrit also the division $prat\hat{i}$ -pa- is possible.

**o'In the Vedic ritual ni+vap is used specifically of piling up (or strewing down) the altar seat of the officiating priest (cf. PW.,² s. v. dhisnya-). There should be no doubt but that Umbr. $vap-e\check{r}$ -, altarseat, is from the same root. The phonetic law that Umbr. v- represents l- is entirely erroneous. Impv. vutu, lavato, comes by syncope or haplology from $wo[de]t\bar{o}d$, or wo[te]tod (cf. Umbr. utur, water), cognate with OEng. waetan, to wet.

 p^{∂} -nt-, covering $(:p\bar{o}i::$ Lat. dant-: $d\bar{o})$, the whole—over-covering, cloud. Nor is $abh\hat{i}$ - $p\acute{a}t$ - our only evidence for pent/pnt; cf. Germ. abend, for a primate \bar{e} -pnt-o- 3 (prius IE \bar{e}/\bar{o} ; cf. on $ap\bar{v}cia$ -: $op\bar{a}cus$, § 21): Skr. \bar{a} -pi-tvam, evening. I take it that pra- $pitv\acute{a}m$ originally meant evening $(\pi\rho\acute{o}$ - $vv\acute{\xi})$, but connoted twilight. Thanks to pra- it was subsequently applied to the morning twilight.

Summary restatement. The adverbs in adherescent k(w)e (Skr. ca, see § 12) are not the only source of the Indo-Iranian suffix ka in direction adjectives. We also have a k (c) suffix, variously extended, which comes from the root $k(w) \bar{e}i/ky$, movere, ire (§ 20). Cf. Skr. $\alpha p \bar{a} - ka$ -, procul adveniens (§ 8, fn.), Av. pairi-kā, "circumiens" (§ 20): $\pi \epsilon \rho \iota \xi$ (nom. advb., see fn. 10), circum-iens (§ 25). The k stem of $\pi \epsilon \rho \iota \xi$ also occurs as -c- in the Sanskrit "weakest stems" like pratî-c- (on î see § 8). In Sanskrit the nouns $an\bar{\imath}ka$ - (: Av. $ain\bar{\imath}ka$ -), acies, splendor (only secondarily=facies); sam-anīká-, proelium; samīká-, proelium; abhī'ka, collision; prátīka-, splendor—all these have a posterius -*īka*- = i c t u s (§ 16). The Skr. fem. sam-*īcī'* belongs to a masculine adjective *sam-īka-, collidens; but pratī-cī' may be either from masc. prati-c-, or represent an original epicene pratī-cī', adversus movens. On pratī-pá-: Av. paiti-pa- etc. see § 26 seq.

³¹Cited from Kluge; also note the primates ē-p[ə]-tén/tón-.

INDEX.

The numerals refer to sections; superior 2 to Ch. ii.

Morphology Lat. praesentia, sum of IE neuter plurals in i and a 1^2 .

Semantics Eng. finger (: fist, five) fn. 10²; horse fn. 3.

Suppletion Lat. fero: tuli 19.

WORD-LISTS.

Sanskrit. a-dya 19a, anîka 14², 15² an(u)-vañc 11², anūpa 26- 27^2 , anv- $\bar{i}pam$ 26^2 , $ap\bar{a}\eta$ 8^2 , $ap\bar{a}c$ 7^2 , $ap\bar{i}cia$ 21^2 , $abh\bar{i}ka$ (cf. samīka), abhī-pat 28², aritra 6, astam-īke 18² — — ānūkam 21², āpitva 28², āvis 11², — ibha 50, iš-krti iš-tani iš-targa 18 — — ucca-nīca 8², udyāna 33, upala 39 — — krū-d-ayati 10, kšanoti 29, kš-atra 34, kšarati 40, kšā-s 47 sq., kšināti 43, kš-iti 33, kš-etra 33, kšoni 47 sq. — khād / khid khedā fn. 29 — gadā 39, go-ptar 4 — caritra 8, cinoti 20² — — jihma 2² — — dhāla dhola dhāukate 21 — takšati 31 — — dakša daçā 42, dāça 32, dāçnoti dīkšate 42, dvīpa 26², — — dhata : θετός 13, dhīvara 19 — — ni-añcanī fn. 21^2 , ni- $dr\bar{a}$ nic \bar{a} 25^2 , $n\bar{i}$ c \bar{a} ny- $a\bar{n}$ c 10^2 — pitar 4 sq.pratīka 182, pratī-cī(na) 192, pratīpa 262, praty-añc 92, parpitva (cf. āpitva) — — bā-dhita 42 — — bharitra 7, bhasad 22 — máhi 1², midhvams 48 — rakšas 44 — $vakšas \text{ fn. } 21^2, vap+ni \text{ fn. } 30^2, v\bar{a}p\bar{\imath} 27^2, viš-va\bar{\imath}c 11^2 --$ cyena çvas 19a — — sada-di sa-dyas 19a, sam-īka 16², sam ipe 262, sam(y)-añc 182, sādh/sidh siddha 42, stighnoti 26² — hodha fn. 17, hyas 19a.

Avestan. ainika 15², aši 32, fm. 15² — usča 8², usyąš 22² — xštā 21 — paitiča 8², 17², paitipa fn. 29², pairikā, fn. 12², 20², puxδa fn. 10² — frača 8², fraša 19² — ni-xšata 23², ni-syąš 22², ny-āpəm 26² — viž-vank 11².

Greek. ἀίδιος 19a, ἄμπωτος fn. 29², 'Αμφι-κ-τύονες 28, ἀνύω fn. 33, ἀν-ώιστος 11², ἄρκτος 14. 16, ἄροτρον 6 — — γδοῦπος 39 — — δάκνει δάκτυλος δείκνυται 3², δέμας 11, διχθά-διος 19a, δοκίδες 5², δοχμή δοχμός 3², 5² — — ἔγκατα 23², εἰνοσί-φυλλος fn. 35, 'Ενοσί-χθων 49, ἐνώπια fn. 22², ἔνωπον 14², ἐξ-ωτικος 34, ἔπι-σσαι 19², ἐρέχθει 44, 'Ερεχθεύς 49 sq., ἐρίγδουπος 39, ἔσχατος 23² — — θυγάτηρ fn.

8 — $-i\gamma\delta\eta$ 39, $i\kappa\tau$ īvos $i\kappa\tau$ ls 19, $l\pi$ os 50, 26², $l\pi\pi$ os 3, $l\phi\theta$ ιμος 53, $l\chi\theta$ ύς 19, 45 — $-\kappa$ ατά κάσις fn. 1, κίννμαι 20², κρέας 9, κτ-(words beginning in) see table of contents § 24 sq. — $-\kappa$ λίγδος 39 — $-\kappa$ μέτα-σσαι 19², μ ιννθά-διος 19α, — $-\kappa$ νεοσσοί νεοχμός fn. 26² — $-\kappa$ ξύν 34 — $-\kappa$ δδαξ όδούς fn. 5², δκκον fn. 15², δκταλλος 32, δππατα fn. 15², δψεται 14² — $-\kappa$ περι-κ-τίονες 27, πέρι-ξ 27, 25², περι-σσός 27, 19² 25², π (τ) όλεμος 17, προπαρ fn. 10², πύξ fn. 10² fn. 28² — $-\kappa$ σερός 19α, σκέπας 11, σπάδιον, σπι-δής fn. 5α, στείχω 26², στερίζω 19 — $-\kappa$ ταππάματα 3, τατώμενος 19, τέκτων 31, τιμή τίω 20² — $-\kappa$ $-\kappa$ τον 42, φ-θείρει 41, φ-θίνει φ-θόνος 42, φ-οιτάω 22 — $-\kappa$ χθές χθι-ζός 19α, χθών 45 sq.

Latin. Agri-ppa fn. 5, antiquos 17², 26², —— branca fn. 3², bucetum 20², —— caedo fn. 30, catulus fn. 1, cerebrum 11, citus 20², cras 19a —— decet 4², dextra digitus 3² —— fessus 42, fe-stino fe-stuca 22 —— ictus (strike >flash, gleam) 16², i-mago 20 —— longinquos fn. 10² —— mater fn. 7, mu(s)-stela 19 —— nudius 19a —— obliquos 2², o-pa-cus 21² —— pater 4 sq., pesestas pestis 17, posticus (see antiquos), procul 24², prope prop[r]ior pro-pinquos fn. 10², proximus 27, pugnus fn. 10² —— que <IE ku-e fn. 13², quom (with) 2, —— reciprocus 8², relicuos 2² —— satus fn. 5a, sesquipedalis 8², situs (see satus), suffio 19, super (\sqrt{swep}) fn. 25 —— tollit 19 —— ursus 14, usque fn. 11² —— veretrum 6, vix fn. 28².

Umbrian. vapeř vutu fn. 30².

Gothic. ga-wigana fn. 35, saihwan 142, stilan 19, tēkan 32.

German. abend 282, eifer 50, 262.

English. fang 3², finger fn. 10², hard 10, heath 20², splay fn. 9², thwaite 33.

Celtic. OIr. ainech 14², en-ek^wo (in-spiciens) 14², OIr. tinaid 15. Slavic. lapa fn. 3², vapa 27².











